

Gemini Valve B.V.

Zijperstraat 29, 1823CX Alkmaar
Netherlands
Tel.: +31(0) 161-227.909
Mobile: +316 1358 2578

info@geminivalve.nl
www.geminivalve.nl

GV779



2 PIECES SPLIT BODY STAINLESS STEEL BALL VALVES FLANGED CLASS 150 PN20

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

Ball valve with firesafe certificate API 607 to reduce risks in case of fire.

PTFE filled with 15% glass seat for a temperature up to +200°C.

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

Handling possible with gearbox.

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



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

Connection : Flanged Class 150 PN20 RF

Min Temperature : -20°C

Max Temperature : +200°C

Max Pressure : 20 bars

Specifications : Double Antistatic device, ATEX
ISO 5211 mounting pad
Anti blow-out stem, full bore
PTFE filled with 15% glass seat
Fire Safe API 607



Materials : Stainless steel ASTM A351 CF8M

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SPECIFICATIONS :

- Full bore
- Anti blow-out stem
- Double antistatic device
- PTFE filled with 15% glass seat
- Locking device
- ISO 5211 mounting pad
- 2 pieces type (Split body)
- Hollowed ball from DN125 to DN200
- With exhaust hole in the ball (located in the top of the ball to avoid overpressure in it)

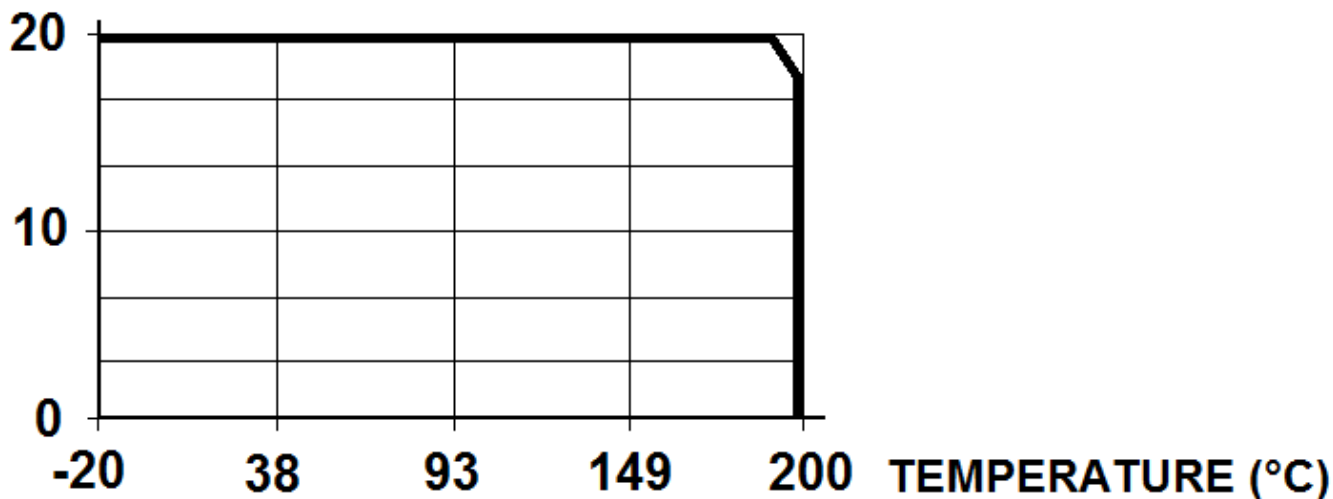
USE :

- Chemical industries, petrochemical industries, hydraulic installation, compressed air, heating and water distribution
- Steam : 11 bars maximum
- Min and max Temperatures Ts : -20°C to + 200°C
- Max Pressure Ps : 20 bars (see graph under)

PRESSURE / TEMPERATURE GRAPH (STEAM EXCLUDED) :

PRESSURE

(Bar)



FLOW COEFFICIENT Kvs (M3 / h) :

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"
Kvs (m3/h)	31	58	86	139	229	415	698	983	1686	2824	3953	7225

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TORQUE VALUES (in Nm without safety coefficient) :

DN (mm)	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"
Torque (Nm)	8	10	12	20	30	40	60	90	130	160	250	500

MAXIMUM ALLOWABLE STEM TORQUE MAST (in Nm) :

DN (mm)	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"
Torque (Nm)	23		28.86		95.05		223.8		360.46		854.4	

RANGE :

- 2 pieces stainless steel body valve Class 150 (PN20) **Ref. 779** from DN 15 to DN 200 (NPS 1/2" to 8")
- Gearbox possible **Ref. 9830296-9830297** from DN 150 to DN 200 (NPS 6" to 8")

CONNECTION :

- R.F. Flanged Class 150 (PN20)

GEARBOX SPECIFICATIONS :

DN (mm)	150	200
NPS (")	6"	8"
Ref.	9830296	9830297
Ratio factor	30 :1	50 :1
Output torque (Nm)	700	1200

ACCESSORIES :



- Single stem extension AISI 304 from DN15 to DN100 (NPS 1/2" to 4") Ref.9810730 to 9810733

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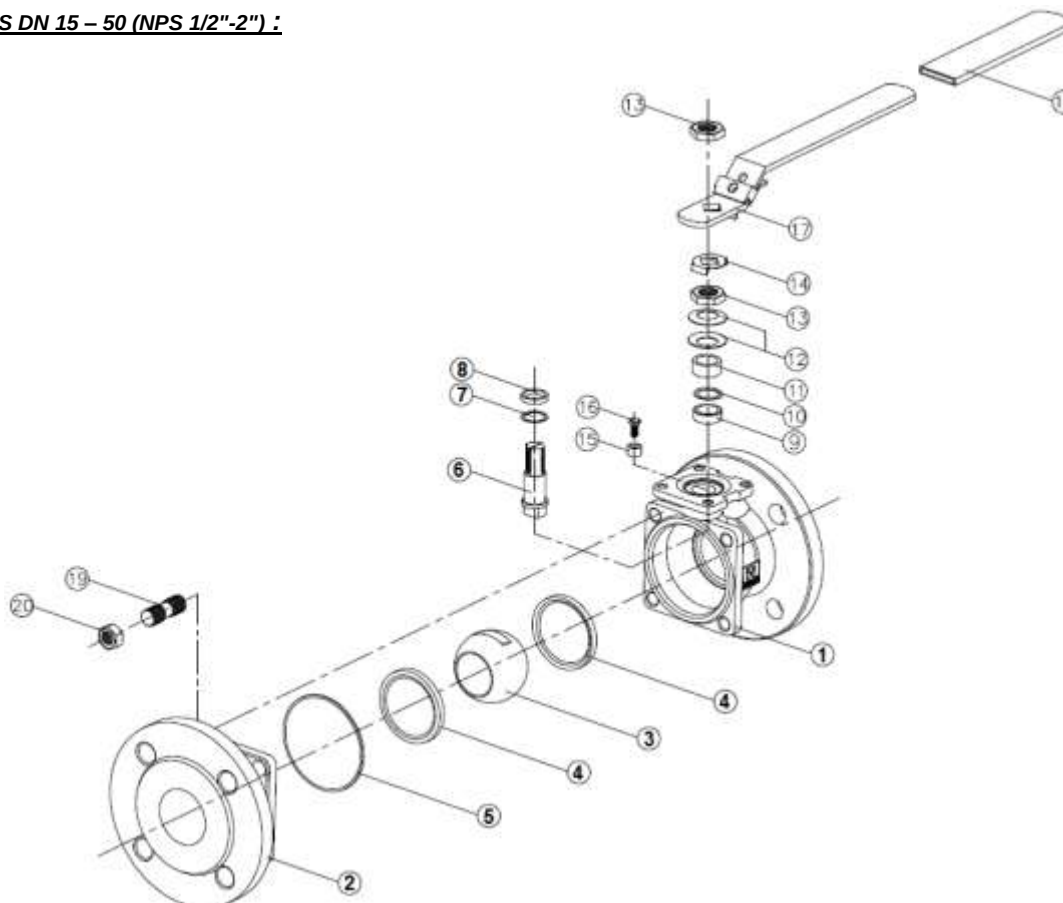
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2 PIECES SPLIT BODY STAINLESS STEEL BALL VALVES FLANGED CLASS 150 PN20

MATERIALS DN 15 – 50 (NPS 1/2"-2") :



(* : Included in gaskets kit)

Item	Designation	Materials
1	Body	ASTM A351 CF8M
2	Ends	
3	Ball	
4*	Seat	PTFE filled with 15 % glass
5*	Body seal	Graphite
6	Stem	ASTM A276 316
7*	Ring	PTFE filled with 25% carbon
8*	Ring	
9*	Packing	Graphite
10*	Packing	PTFE filled with 25% carbon
11	Packing gland	AISI 304
12	Elastic ring	AISI 301
13	Nut	AISI 304
14	Washer	
15	Pin	
16	Pin screw	
17	Handle	PVC
18	Handle cover	
19	Stud	ASI 304
20	Nut	

Repairability :



Gaskets Kit (item 4, 5, 7, 8, 9 and 10)

DN	Part Number
DN15	9804252
DN20	9804253
DN25	9804254
DN32	9804255
DN40	9804256
DN50	9804257

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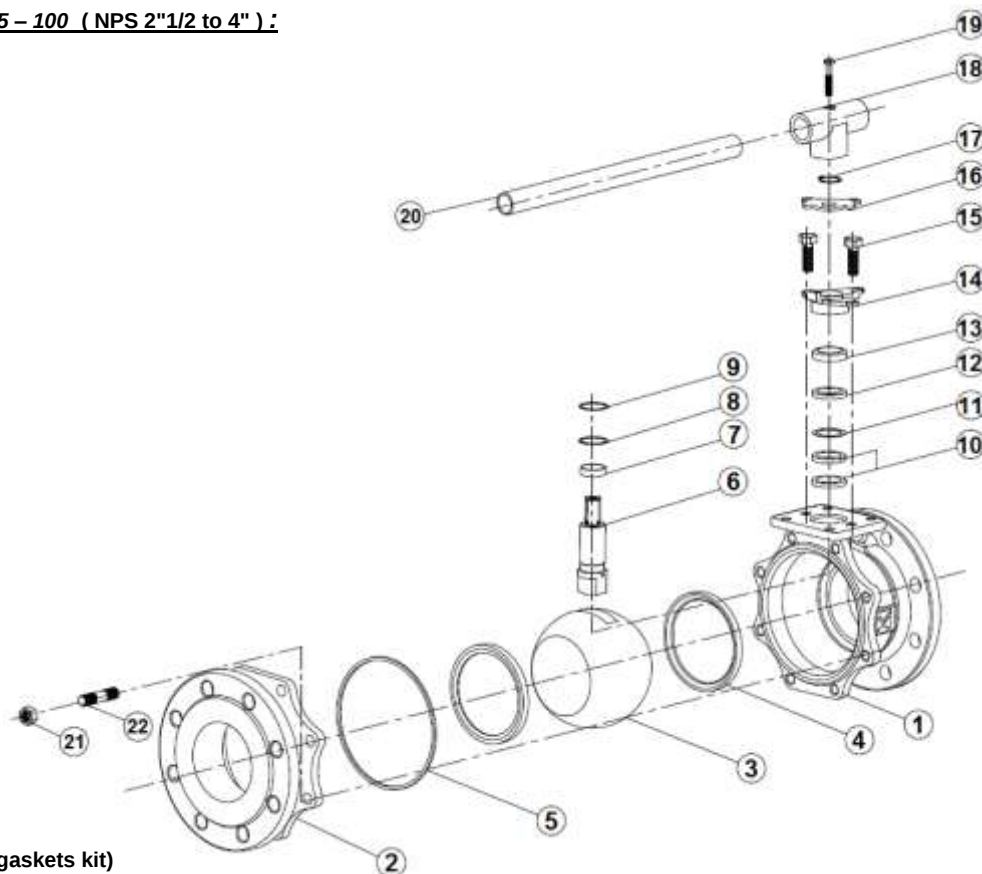
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2 PIECES SPLIT BODY STAINLESS STEEL BALL VALVES FLANGED CLASS 150 PN20

MATERIALS DN 65 – 100 (NPS 2"1/2 to 4") :



(* : included in gaskets kit)

Repairability :



Item	Designation	Materials
1	Body	ASTM A351 CF8M
2	Ends	
3	Ball	
4*	Seat	PTFE filled with 15% glass
5*	Body seal	Graphite
6	Stem	ASTM A276 316
7*	Ring	PTFE filled with 25% carbon
8*	Ring	
9*	Ring	
10*	Packing	Graphite
11*	Packing	PTFE filled with 25% carbon
12	Ring	AISI 304
13	Ring	
14	Packing gland	ASTM A351 CF8
15	Packing gland screw	AISI 304
16	Pin	
17	Circlips	
18	Handle adaptor	ASTM A351 CF8
19	Screw	AISI 304
20	Handle	
21	Nut	
22	Stud	

Gaskets Kit (item 4, 5, 7, 8, 9, 10 and 11)

DN65	9804258
DN80	9804259
DN100	9804260

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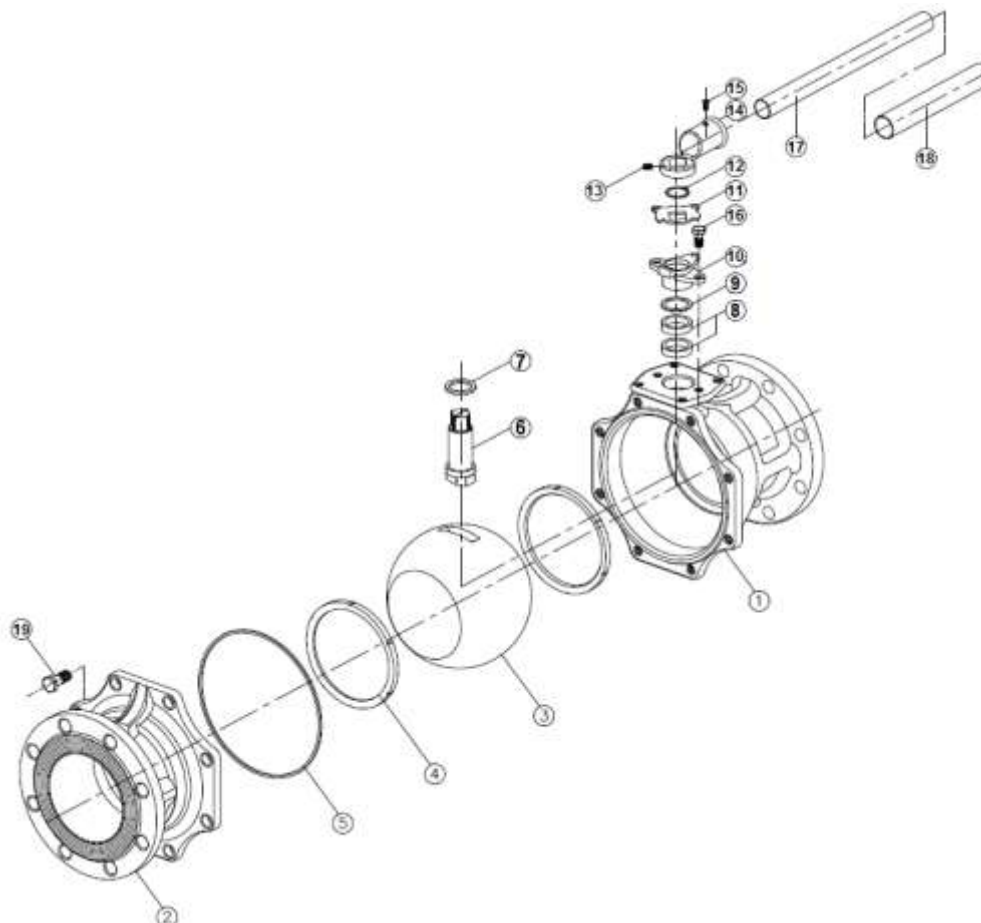
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2 PIECES SPLIT BODY STAINLESS STEEL BALL VALVES FLANGED CLASS 150 PN20

MATERIALS DN 125 - 200 (NPS 5" to 8"):



Item	Designation	Materials
1	Body	ASTM A351 CF8M
2	Ends	
3	Ball	AISI 316
4*	Seat	PTFE filled with 15% glass
5*	Body seal	Graphite
6	Stem	ASTM A276 316
7*	Ring	PTFE filled with 25% carbon
8*	Packing	Graphite
9*	Packing	PTFE filled with 25% carbon
10*	Packing gland	ASTM A351 CF8
11	Pin	AISI 304
12	Circlips	
13	Screw	
14	Handle adaptor	
15	Screw	
16	Packing gland screw	PVC
17	Handle	
18	Handle cover	PVC
19	Body screw	AISI 304

(* : included in gaskets kit)

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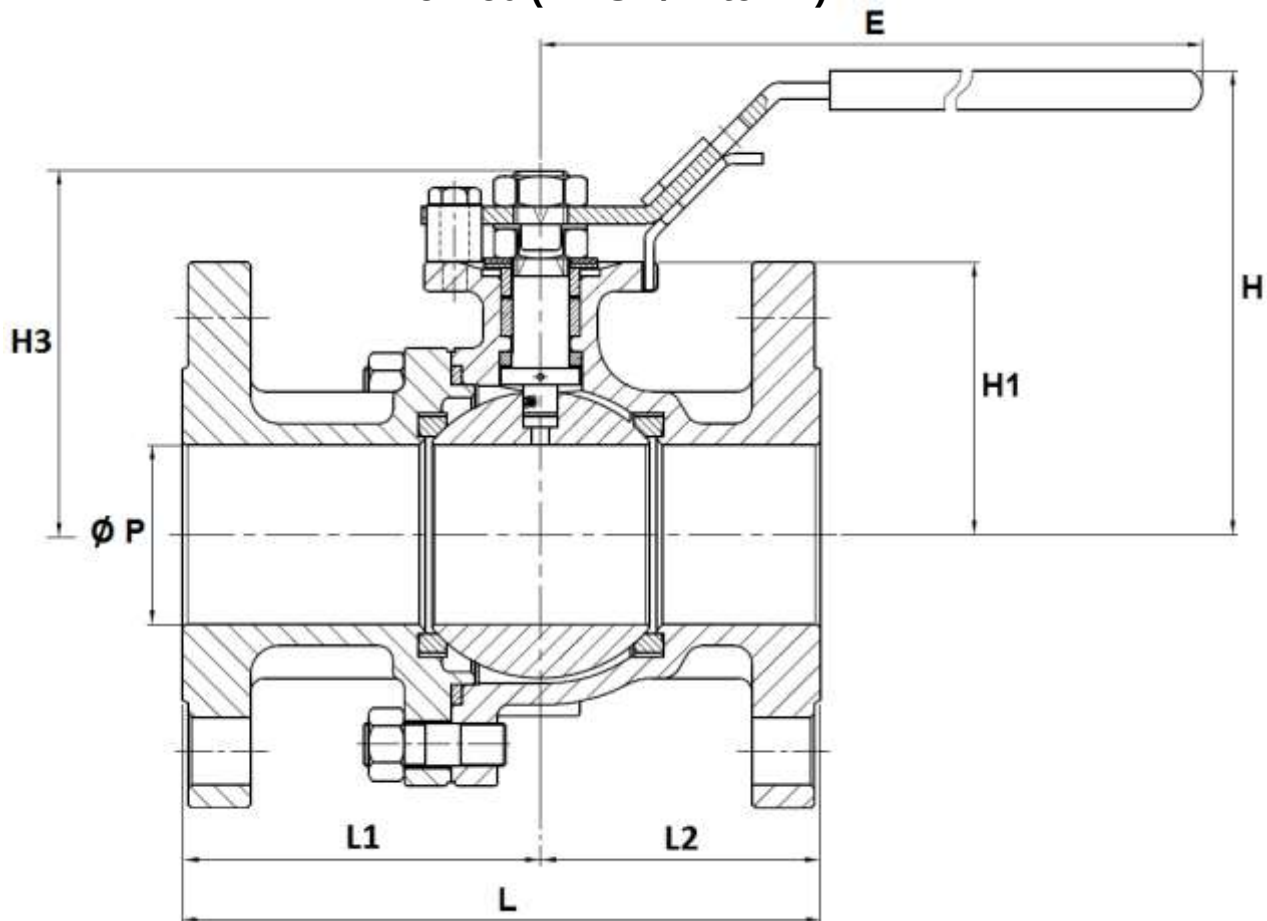
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2 PIECES SPLIT BODY STAINLESS STEEL BALL VALVES FLANGED CLASS 150 PN20

SIZE DN 15 – 50 (NPS 1/2" to 2") (in mm) :

DN 15 – 50 (NPS 1/2" to 2")



DN (mm)	15	20	25	32	40	50
NPS (")	1/2"	3/4"	1"	1"1/4	1"1/2	2"
Ø P	15	20	24	30	38	50
L	108	117	127	140.2	165	178
L1	61	65	72.5	78.2	90.8	98
L2	47	52	54.5	62	74.2	80
E	158	158	196	196	245	261
H	76.6	79.1	92	96	121.1	127.6
H1	39	42.5	52	56	66	73
H3	53.5	56.5	70	73	88	94.5
Weight (in Kg)	1.9	2.4	3.4	4.2	6.1	8.8
Ref.	779015	779020	779025	779032	779040	779050

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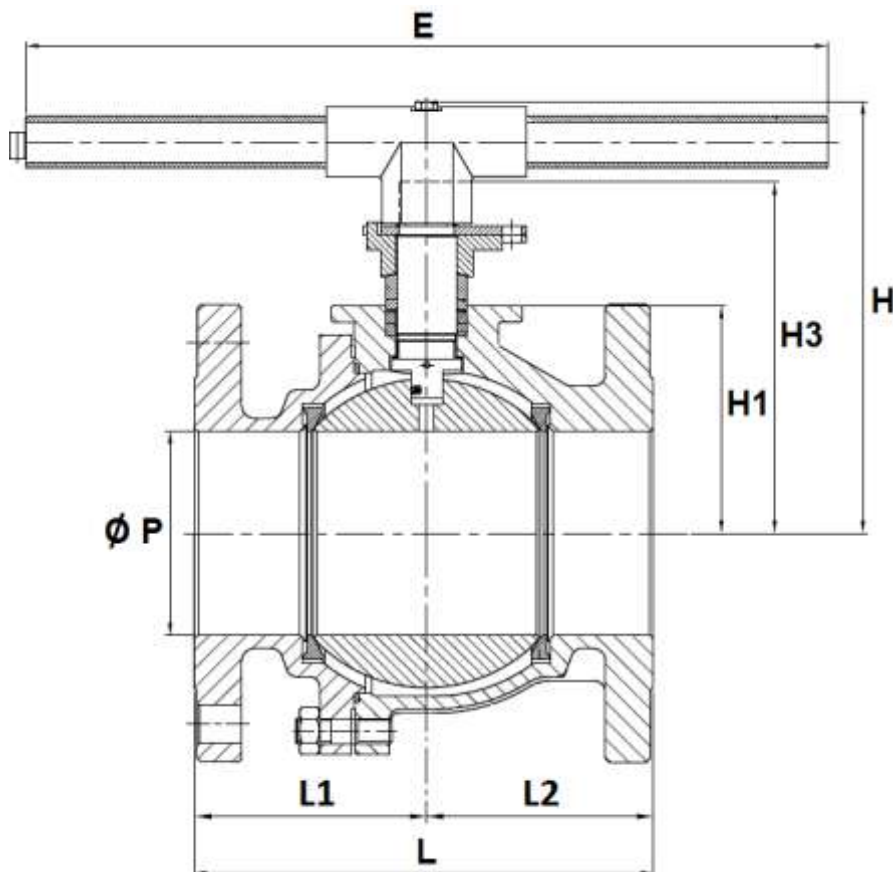
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2 PIECES SPLIT BODY STAINLESS STEEL BALL VALVES FLANGED CLASS 150 PN20

SIZE DN 65 - 100 (NPS 2"1/2 to 4") (in mm) :

DN 65 – 100 (NPS 2"1/2 to 4")



DN (mm)	65	80	100
NPS (")	2"1/2	3"	4"
Ø P	64	76	98
L	190	203	229
L1	100.3	109.2	119.3
L2	89.7	93.8	109.7
E	400	400	400
H	188	194	215
H1	86.5	91.5	113.5
H3	152	158	179
Weight (in Kg)	16.4	19.5	28.1
Ref.	779065	779080	779100

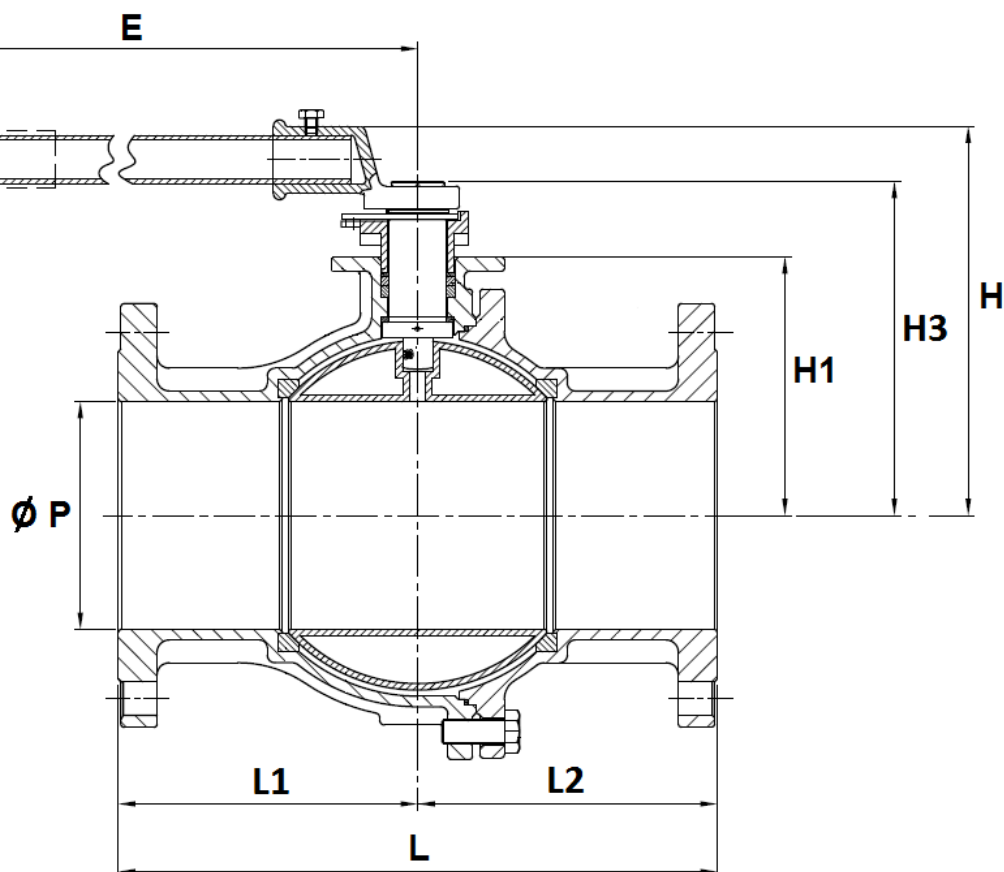
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SIZE DN 125 - 200 (NPS 5" to 8") (in mm) :

DN 125 – 200 (NPS 5" to 8")


DN	125	150	200
NPS (")	5"	6"	8"
Ø P	125	150	200
L	356	394	457
L1	176.7	197	226
L2	179.3	197	231
E	743	743	840
H	239.6	256.5	334
H1	147	170	215
H3	199	220	300.5
Weight (in Kg)	40	54	88
Ref.	779125	779150	779200

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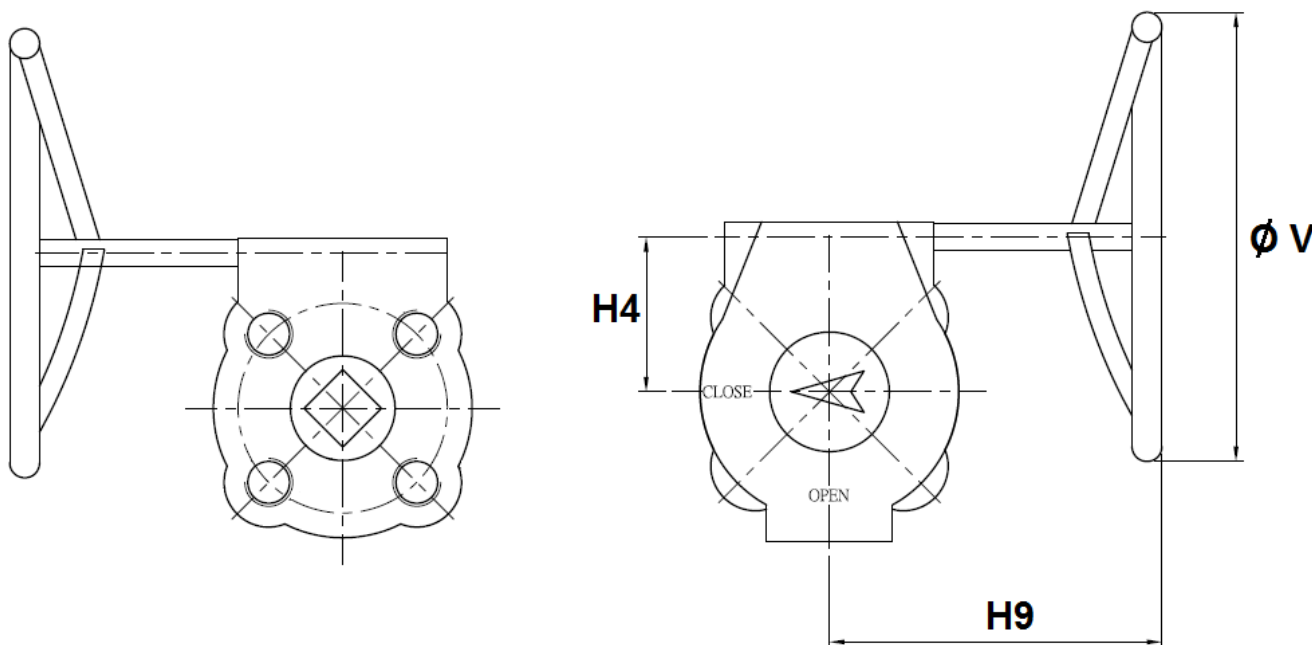
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2 PIECES SPLIT BODY STAINLESS STEEL BALL VALVES FLANGED CLASS 150 PN20

GEARBOX SIZE (in mm) :



DN (mm)	150	200
NPS (")	6"	8"
H4	63	78
H9	238	226
Ø V	300	300
Weight (Kg)	12.5	15
Ref.	9830296	9830297

GEARBOX SPECIFICATIONS :

DN (mm)	150	200
NPS (")	6"	8"
Ref.	9830296	9830297
Ratio factor	30 :1	50 :1
Output torque (Nm)	700	1200

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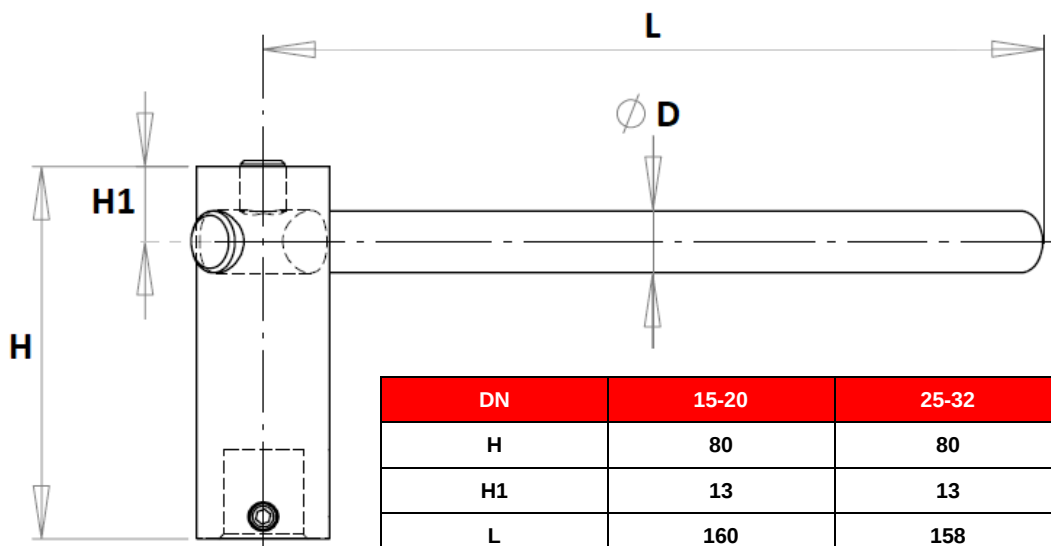
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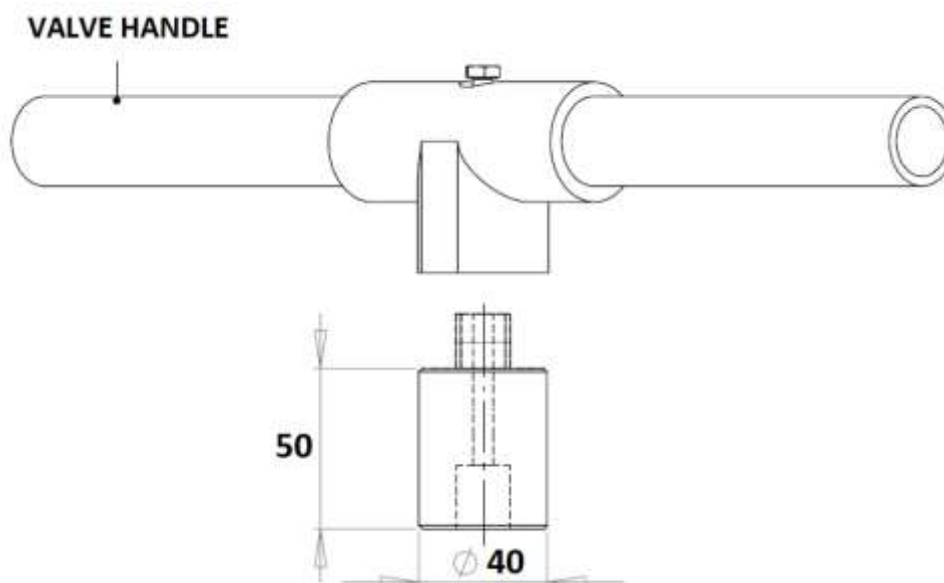
STEM EXTENSION (in mm) :

DN 15 – 50 (NPS 1/2"-2")



DN	15-20	25-32	40-50
H	80	80	84
H1	13	13	17
L	160	158	245
Ø D	10	10	14
Ref.	9810730	9810731	9810732
Weight (Kg)	0.18	0.22	0.26

DN 65–80-100 (NPS 2"1/2-4") Ref.9810733



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ISO MOUNTING PAD AND STEM SIZE (in mm) :

DN 15 – 50

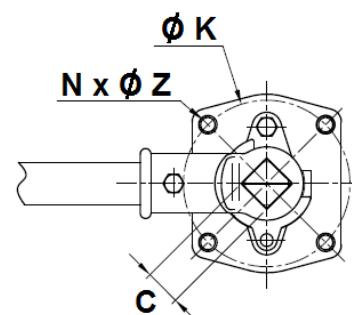
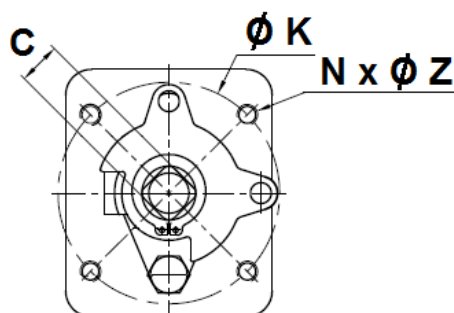
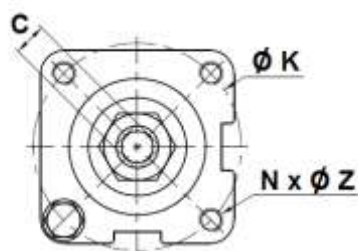
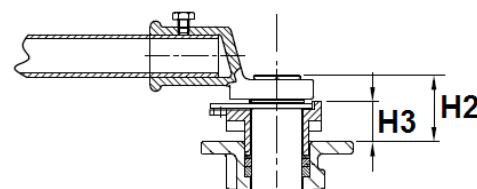
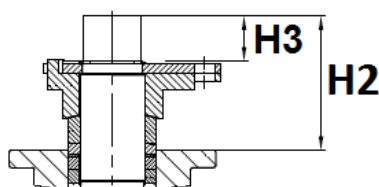
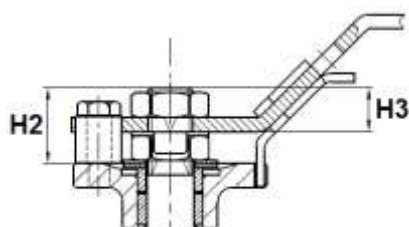
DN 65 – 100

DN 125 - 200

NPS (1/2" - 2")

NPS (2"1/2 - 4")

NPS (5"- 8")



NPS (")	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"	5"	6"	8"
DN	15	20	25	32	40	50	65	80	100	125	150	200
C	9		11		14		17			27		36
Ø K	42		50		70		102			125		140
ISO	F04		F05		F07		F10			F12		F14
N x Ø Z	4xM5		4xM6		4xM8		4xM10			4xM12		4xM16
H2	14.5	14	18	17	22	21.5	65.5	66.5	65.5	52	50	85.5
H3	8.5		12		14		27			32	31	40

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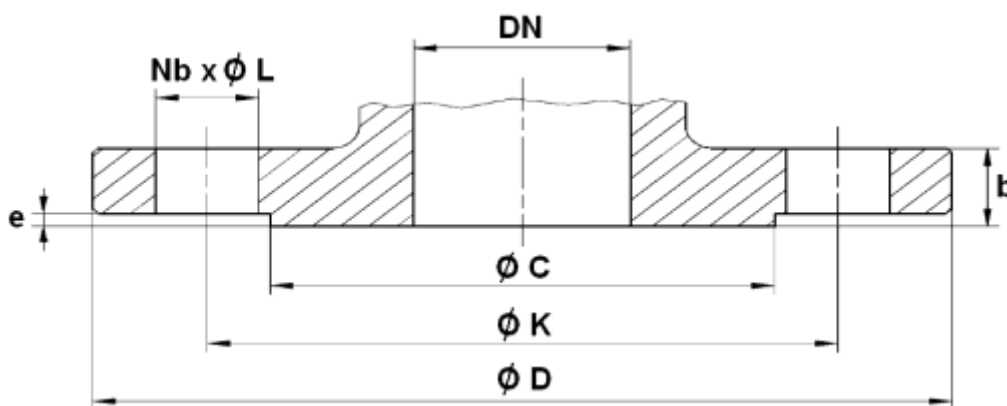
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CLASS 150 (PN20) FLANGES SIZE (in mm) :



DN (mm)	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"
Ø C	35	42.9	50.8	63.5	73	92.1	104.8	127	157.2	186	216	270
Ø D	90	100	110	115	125	150	180	190	230	254	279	343
Ø K	60.3	69.9	79.4	88.9	98.4	120.7	139.7	152.4	190.5	216	241.5	298.5
Nb x Ø L	4 x 15.8	4 x 15.8	4 x 15.8	4 x 15.8	4 x 15.8	4 x 19	4 x 19	4 x 19	8 x 19	8 x 22	8 x 22	8 x 22.5
b	11.2	12.7	14.3	15.9	17.5	19	22.3	23.9	23.9	23.9	25.4	28.6
e	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6

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STANDARDS :

- Manufacturer certified ISO 9001 : 2015 and ISO 14001 : 2015
- DIRECTIVE 2014/68/EU: For liquids and gas of Group 1
 - DN15-25: Article 4, §3 (SEP), no CE marking
 - DN32-50: Risk Category I, CE0035 marking
 - DN65-150: Risk Category II, CE0035 marking
 - DN200: Risk Category III, CE0035 marking
- Certificate 3.1 on request
- Construction according to ASME B16.34
- Pressure tests according to API 598, table 6
- Class 150 (PN20) R.F. flanges according to ASME B16.5
- ISO 5211 mounting pad
- Length according to ASME B16.10 Table 1 Column 18 (EN 558 series 3 up to DN100, series 12 from DN125 to 200)
- ATEX Group II Category 2 G/2D Zone 1 & 21 Zone 2 & 22 (optional marking)
- Fire safe according to API 607 6th Edition 2010 up to DN200 (8")
- Foundry certified Bureau Veritas Marine & Offshore according to NR320 (BV Marine recognition Mode II)