

APD[®]

DATASHEET

K85 111 016.752

DN15-200 PN16/40

2 PIECES SPLIT BODY BALL VALVE FLANGED PN16/40 ICP DIN 3202 F4/F5

2 pieces carbon 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.



Certificate
3.1



Size : DN15 to DN200

Connection : Flanged PN16/40 RF

Min Temperature : -20°C

Max Temperature : +230°C

Max Pressure : 40 bars up to DN50, 16 bars over

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 : Carbon Steel EN 1.0619

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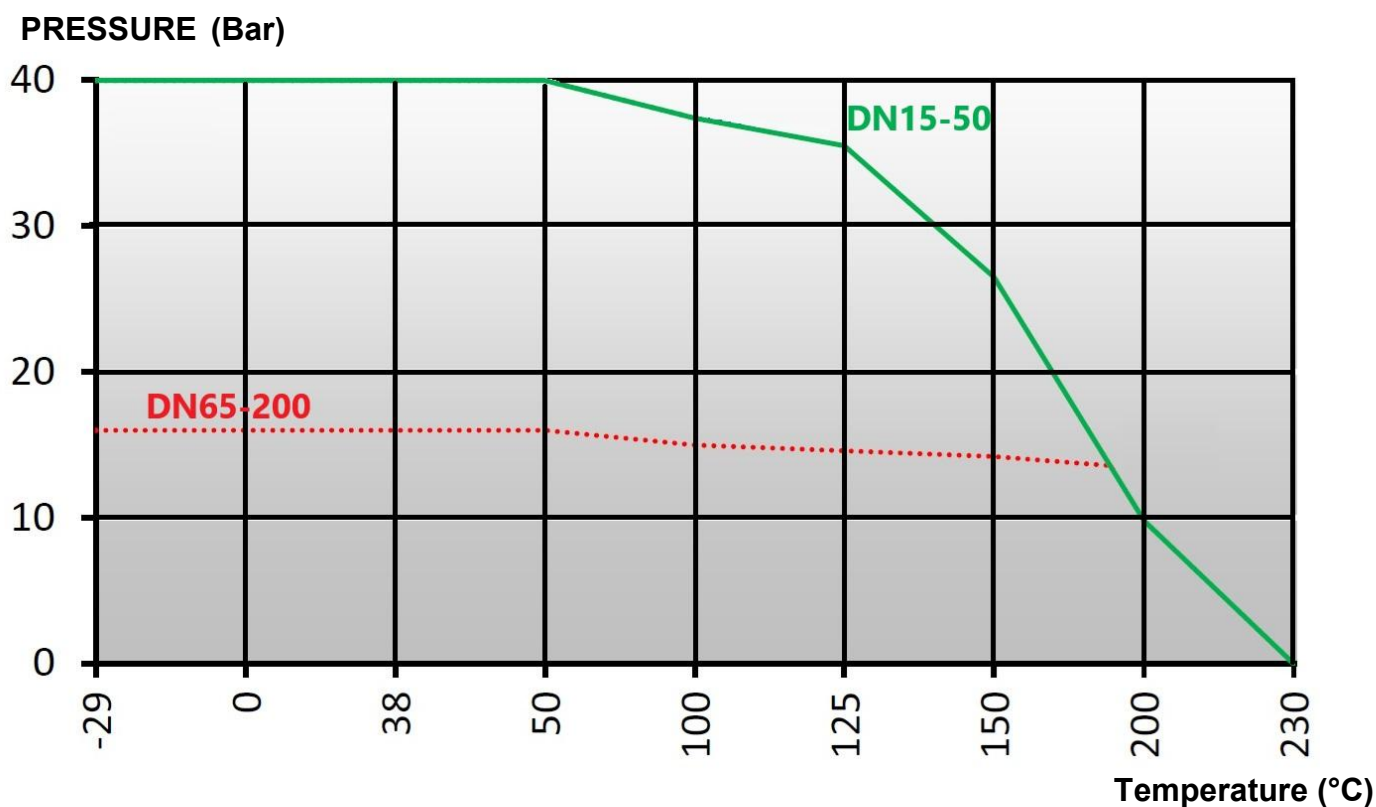
SPECIFICATIONS :

- Full bore
- Anti blow-out stem
- PTFE seat
- Locking device
- ISO 5211 mounting pad
- 2 pieces type (Split body)
- PN40 Flanges R.F. up to DN50, PN16 over
- 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)
- Blue painting colour RAL 5009 or Black painting colour RAL 9004, 5-15 microns thickness

USE :

- Chemical industries, petrochemical industries, hydraulic installation, heating, water distribution, compressed air
- Min and max Temperature Ts : -20°C to + 230°C
- Max Pressure Ps : 40 bars up to DN50, 16 bars over (see graph)
- Vacuum 10^{-2} torr
- Compressed air (ambient temperature) : 40 bars maximum up to DN50, 16 bars over
- Steam : 12 bars maximum

PRESSURE / TEMPERATURE GRAPH (STEAM EXCLUDED) :



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FLOW COEFFICIENT Kvs (in m³ / h) :

DN	15	20	25	32	40	50	65	80	100	125	150	200
Kvs (m ³ / h)	20	40	75	130	170	270	550	1000	1650	3000	4200	9000

TORQUE VALUE (in Nm without safety coefficient) :

DN	15	20	25	32	40	50	65	80	100	125	150	200
Torque (Nm)	8	12	14	22	27	50	51	77	116	159	215	493
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 :

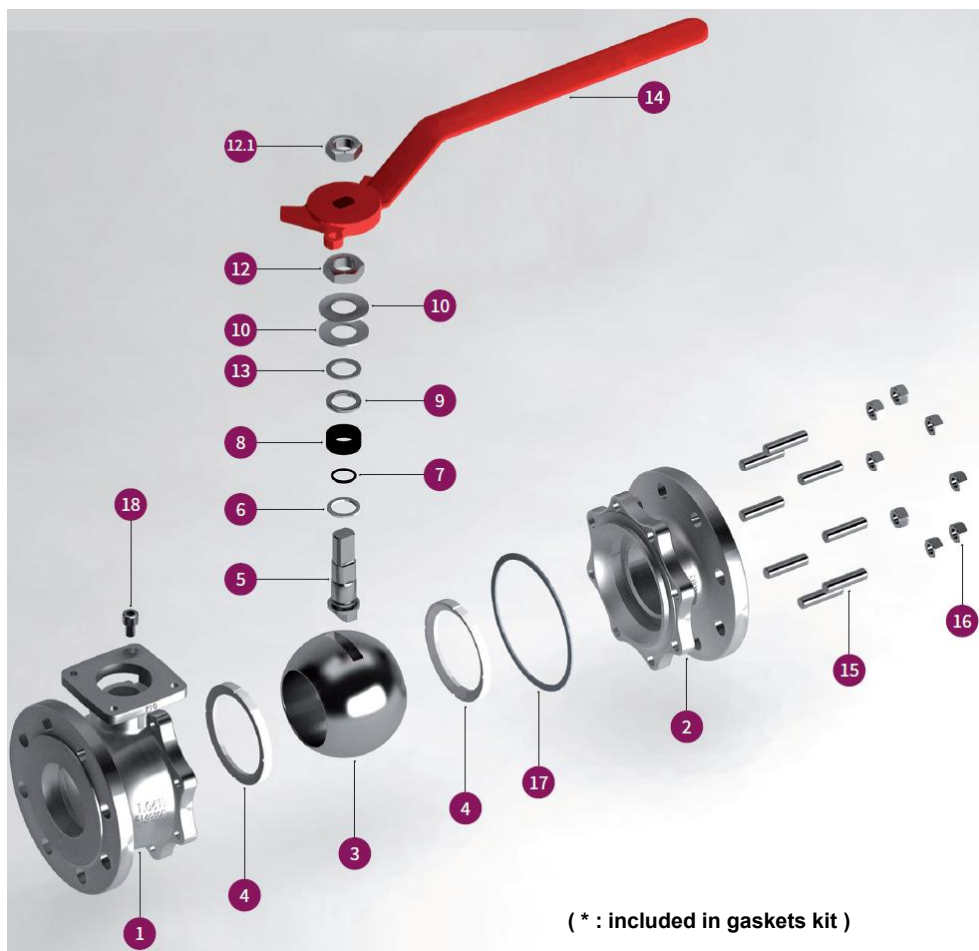
- Carbon steel body ball valve **Ref. 752** DN 15 to DN 200
- Possible with gearbox **Ref. 9830221-9830222 and 9830266-267** from DN 100 to DN 200
- ASTM A351 CF8M handle **Ref. 9812090-9812097** from DN 15 to DN 200

CONNECTION :

- PN40 Flanges R.F. up to DN50, PN16 over

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VALVE MATERIALS :



(* : included in gaskets kit)

Repairability :



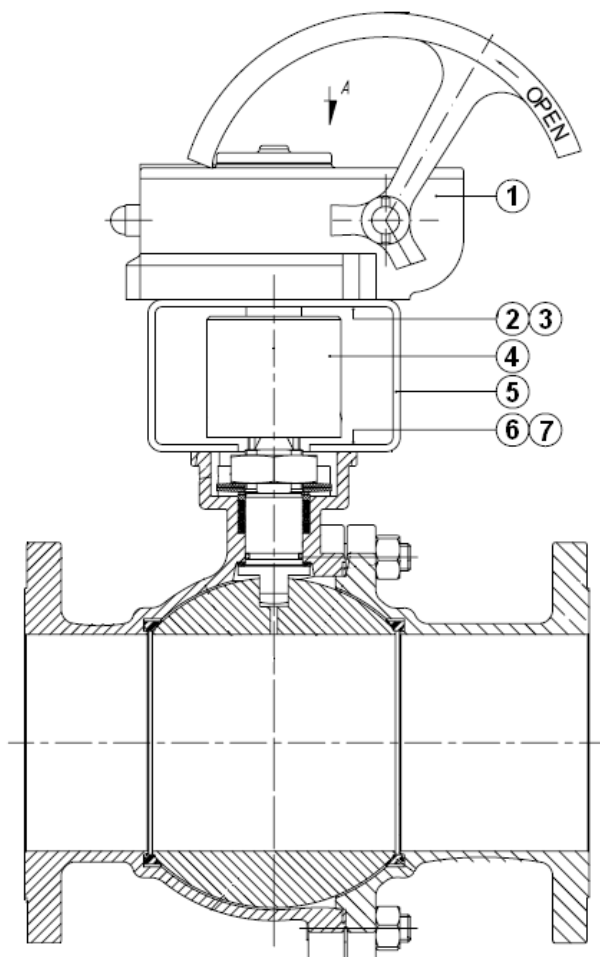
*Gaskets kit (items 4, 6, 7, 8 and 17)

DN15	9804300
DN20	9804301
DN25	9804302
DN32	9804303
DN40	9804304
DN50	9804305
DN65	9804306
DN80	9804307
DN100	9804308
DN125	9804309
DN150	9804310
DN200	9804311

Item	Designation	Materials
1	Body	Carbon steel EN 1.0619
2	Ends	
3	Ball	ASTM A351 CF8M
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. B7M
16	Nut	A 194 Gr. 2HM
17*	Spiralwound gasket	SS 316L + PTFE + Graphite
18	Bolt	A2

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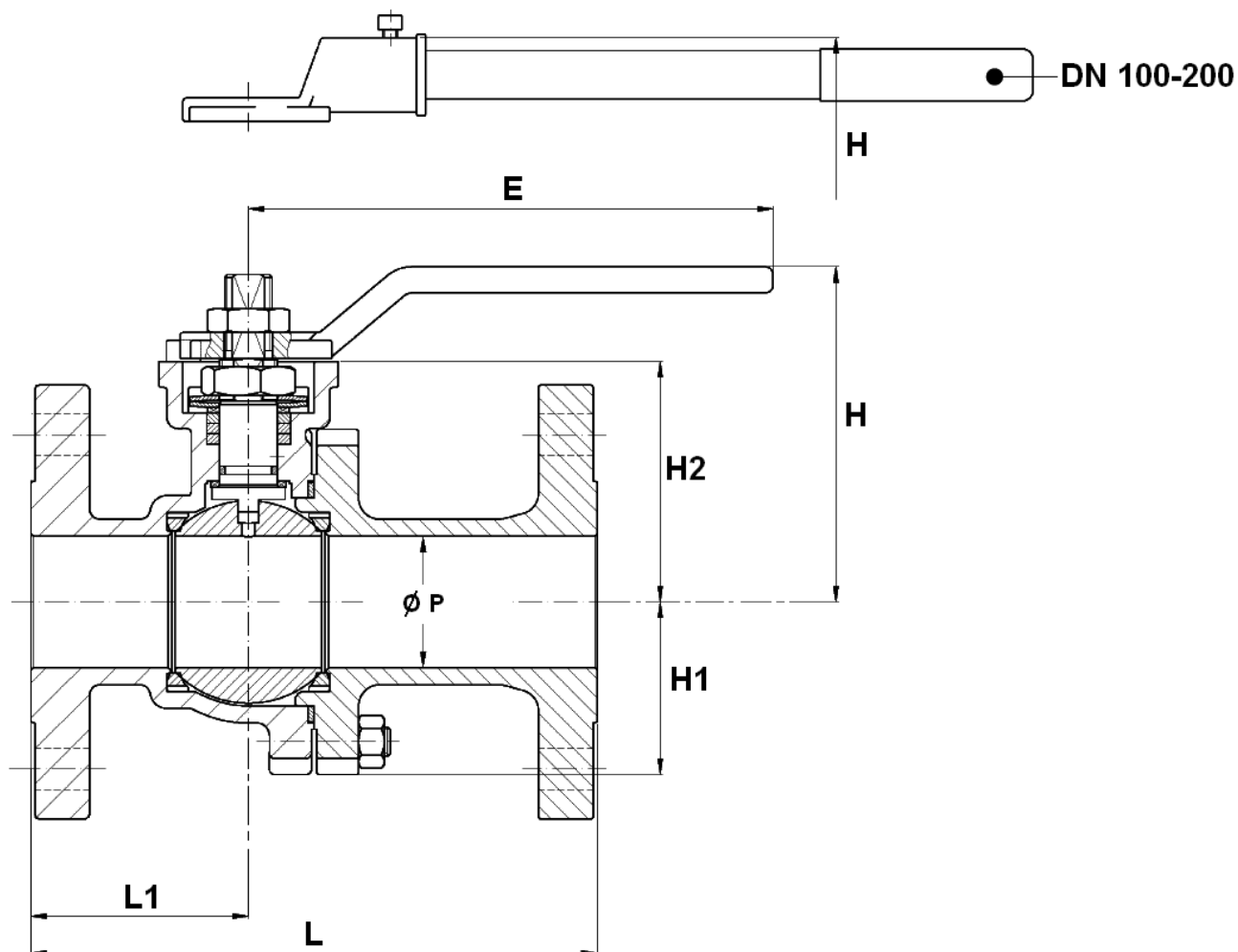
GEARBOX MATERIALS :



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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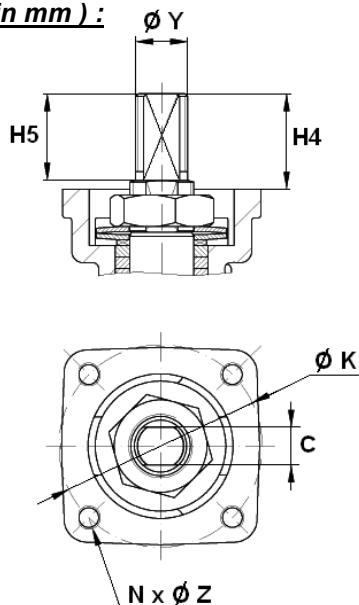
VALVE SIZE (in mm) :



DN	15	20	25	32	40	50	65	80	100	125	150	200
Ø P	15	20	25	32	40	50	65	78	100	125	151	203
L	115	120	125	130	140	150	170	180	190	325	350	400
L1	53	52	52	54	55	61	72	73	83	120	135	200
E	170	170	170	170	215	215	335	430	466	680	680	845
H	68	70	86	89.5	122.5	127.5	140	190	192.5	240	259	319
H1	31	33	39	43	48	63	78	87	108	134	152	202
H2	41	43	58.5	63.5	86.5	91.5	104	118.5	144	184	203	250
Weight (Kg)	2.4	3.2	4.1	5.8	8.1	10.6	13.3	19.1	25.6	47.6	63.5	115.3
Ref.	752015	752020	752025	752032	752040	752050	752065	752080	752100	752125	752150	752200

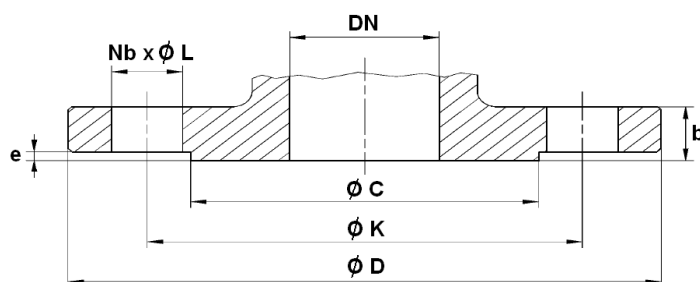
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ISO MOUNTING PAD AND STEM SIZE (in mm) :



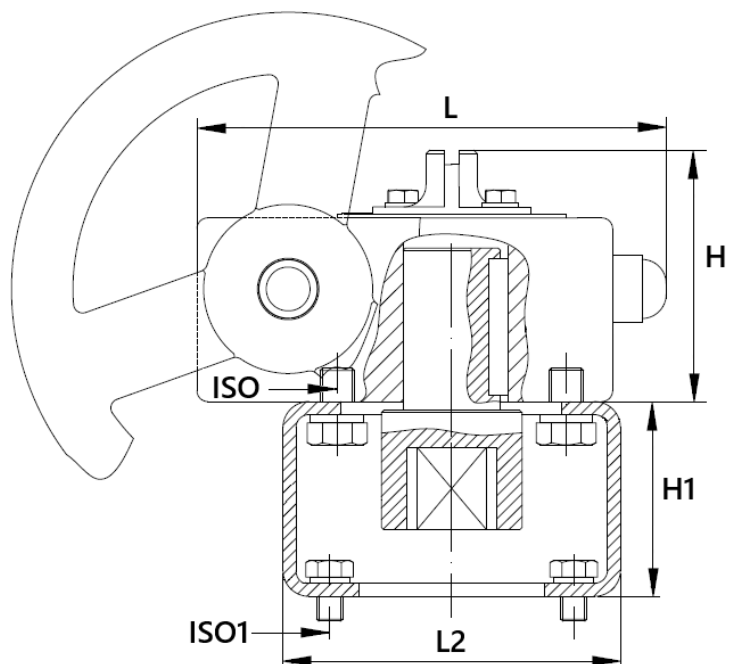
DN	15	20	25	32	40	50	65	80	100	125	150	200
H4	18		22		33		34		45	56		69
H5	11		21		32		33		43.5	54.5		67
C	7		8		12		15		19	24		32
Ø Y	M10		M12		M18		M22		M28	M36		M48
Ø K	50				70			102		125		140
ISO	F05				F07			F10		F12		F14
N x Ø Z	4 x M6				4 x M8			4 x M10		4 x M12		4 x M16

FLANGES SIZE (in mm) :

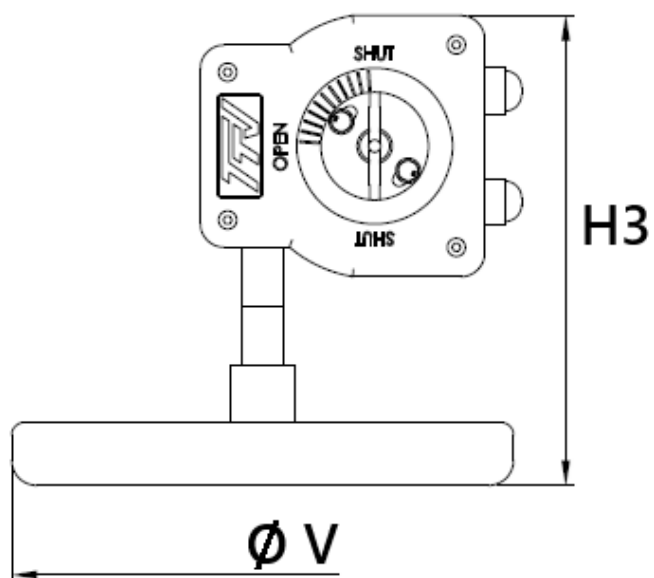
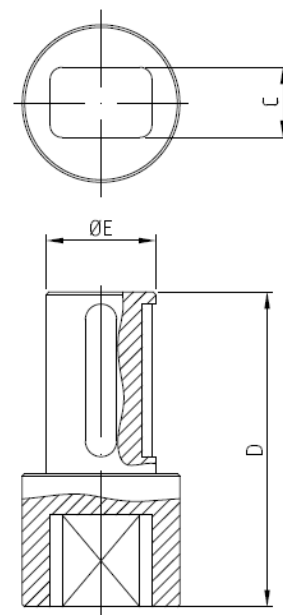
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2 PIECES SPLIT BODY BALL VALVE FLANGED PN16/40 ICP DIN 3202 F4/F5

GEARBOX SIZE DN100-125-200 (in mm) :



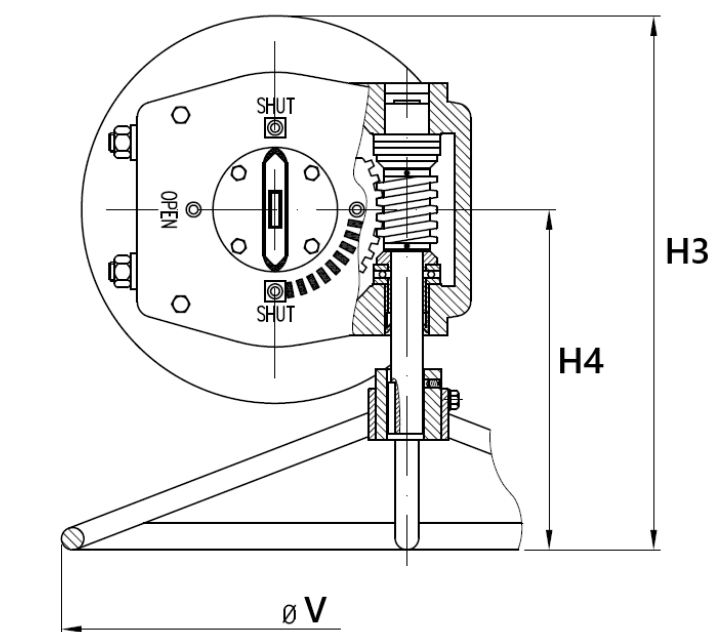
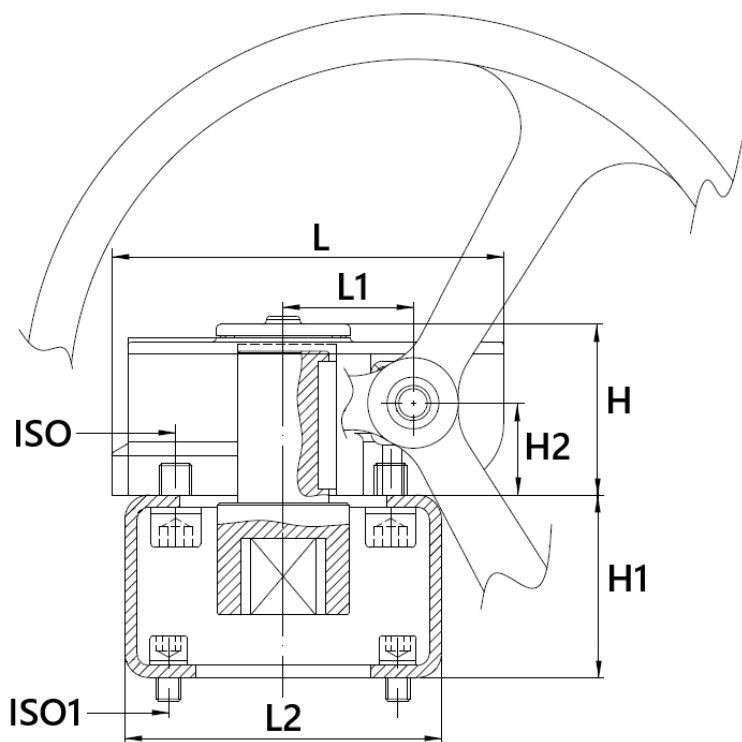
COUPLING :



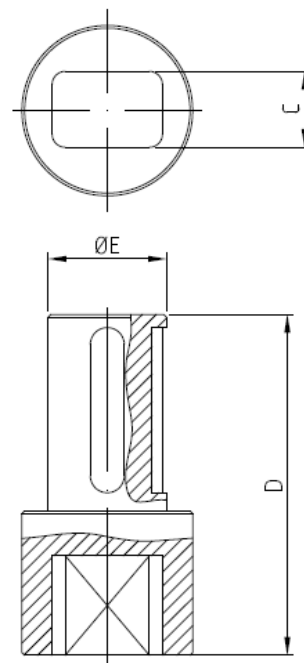
PN	PN16		
DN	100	125	200
H	73	98	98
H1	80	80	90
H3	115	345	345
L	130	224	224
L2	120	160	160
Ø V	200	400	400
ISO	F07	F14	F14
ISO1	F10	F12	F14
C	19	24	32
D	119	128	138
Ø E	32	54	54
Weight (in Kg)	4.2	15.5	16.5
Torque (Nm)	250	1200	1200
Ref.	9830221	9830222	9830267

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GEARBOX SIZE DN150 (in mm) :



COUPLING :

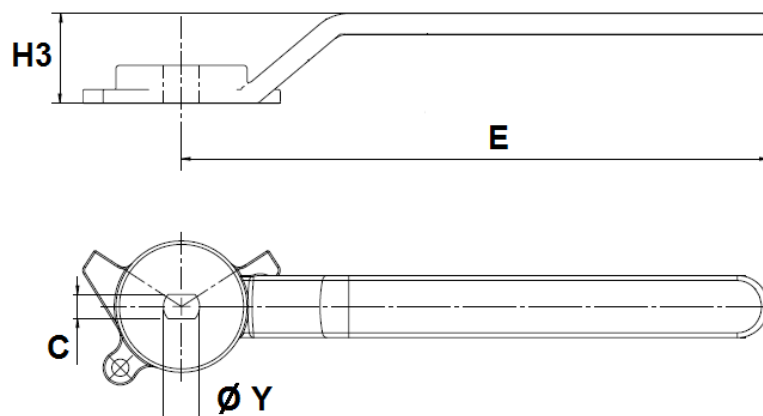


PN	PN16
DN	150
H	102
H1	80
H2	56
H3	365
H4	255
L	217
L1	77.5
L2	160
Ø V	465
ISO	F14
ISO1	F12
C	24
D	130
Ø E	45
Weight (in Kg)	22.3
Torque (Nm)	1200
Ref.	9830266

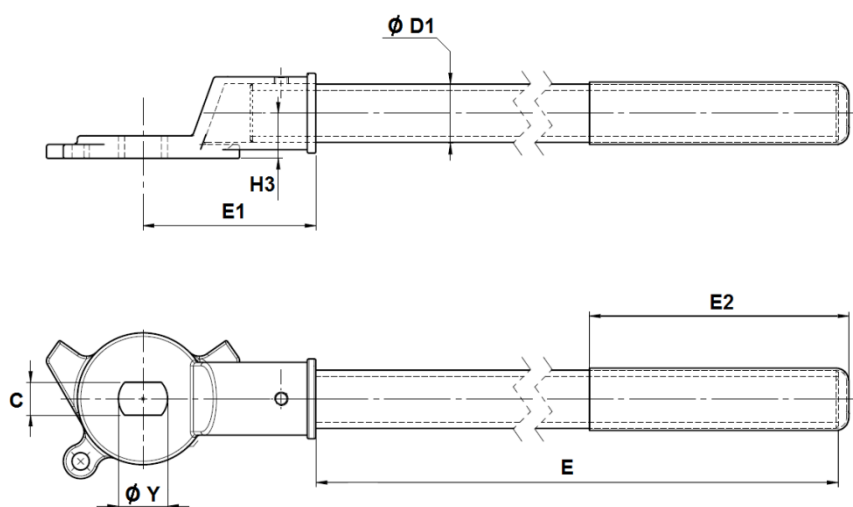
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STAINLESS STEEL HANDLE SIZE (in mm) :

DN 15 - 80



DN 100 - 200



DN	15-20	25-32	40-50	65	80	100	125-150	200
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

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STANDARDS :

- Manufacturer certified ISO 9001:2015
- DIRECTIVE 2014/68/EU : For liquids and gas of Group 1
 - DN15-25 : Article 4, §3 (SEP), no CE marking
 - DN32-200 : Risk Category II, CE0035 or CE1035 marking
- Certificate 3.1 on request
- Valve designing according to EN 1983 – ISO 17292
- Pressure Tests according to EN 12266-1, Rate A
- Marking according to EN 19
- Fire safe according to ISO 10497 : 2004
- Fugitive Emissions according to EN 15848-1 : 2006
- Flanges R.F. according to EN 1092-1 PN16/40
- ISO 5211 mounting pad and stem size according to EN 15081
- Length according to EN 558 series 27 (DIN 3202 F4 up to DN100, DIN 3202 F5 over)
- ATEX Group II Category 2 G/2Dc Zone 1 & 21 Zone 2 & 22 (optional marking) according to directive 2014/34/EU