

2 PIECES CARBON STEEL TRUNNION BALL VALVE FLANGED CLASS 600 JC LONG PATTERN (ASME B16.10 TABLE 3-1) DEVLON SEAT

2 pieces split body trunnion ball valve JC with PTFE bearing, full bore for Chemical industries, petrochemical industries, hydraulic installation, heating, water distribution, compressed air.

Double block and bleed :

- To control the double tightness upstream/downstream of the valve
- Maximum safety for maintenance working downstream the valve

Low torque and high tightness even at low pressure. Seat installed on Inconel springs simple piston effect type (double piston effect on request).

Ball valve with firesafe certificate ISO 10497 and API 607 to reduce risks in case of fire.

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

Handling possible with locking device, gearbox, oval handwheel or stem extension.

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



Certificate
3.1



JC
VALVES



NACE MR01-75

Size : DN50 to DN300 (NPS 2" to 12")
Connection : Flanges Class 600 RF
Min Temperature : -29°C
Max Temperature : +125°C
Max Pressure : 100 Bars
Specifications : Trunnion ball valve on PTFE bearing
 ISO 5211 mounting pad
 Anti blow-out stem, full bore
 Simple piston effect
 Fire safe ISO 10497 and API 607

Materials : Forged carbon steel ASTM A105N

*the installation defects and wear defects are not covered by the guarantee

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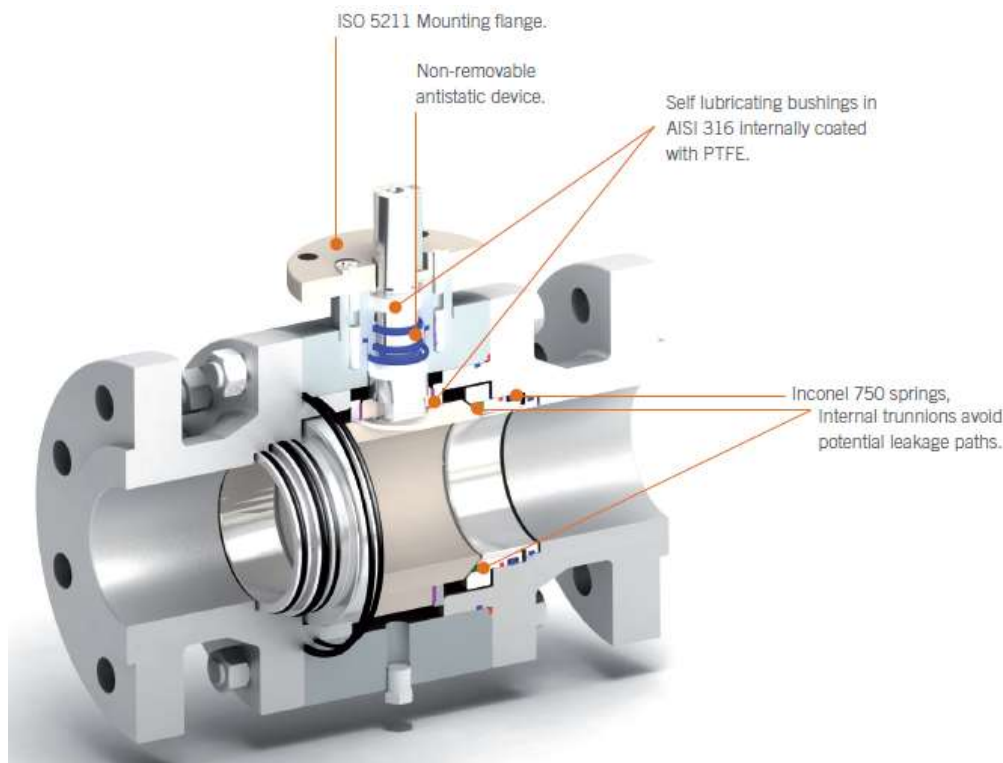
SPECIFICATIONS :

- Trunnion ball valve on PTFE bearing
- DEVLON seat
- Forged carbon steel body
- Quadruple tightness on stem
- Inconel springs on seat
- Simple piston effect (double piston effect on request)
- With drain and blowhole
- Full bore
- Anti blow-out stem
- Locking device on request
- ISO 5211 mounting pad
- 3 pieces type
- Class 600 Flanges R.F.
- Antistatic device
- Fire safe ISO 10497 and API 607
- Fugitive emissions EN 15848-1 : 2006 and TA LUFT VDI 2440
- Graphite packing + 3 FKM O rings on stem
- Painting color RAL 5009, 15-50µ thickness

USE :

- Chemical industries, petrochemical industries, hydraulic installation, heating, water distribution, compressed air
- Min and max Temperature Ts : -29°C to + 125°C
- Max Pressure Ps : 100 bars (see graph)
- Vacuum 10^{-2} torr
- Compressed air (ambient temperature) : 16 bars maximum

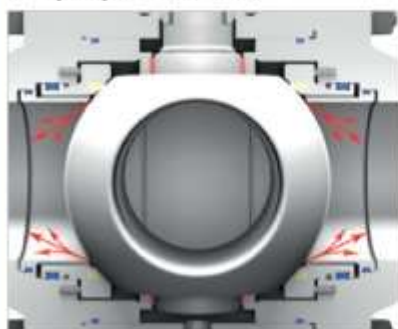
SPECIFICATIONS :



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SPECIFICATIONS (SUITE) :

Simple piston effect



**PMSS Primary Metal Soft Seal
Soft primary gasket and metal secondary gasket**

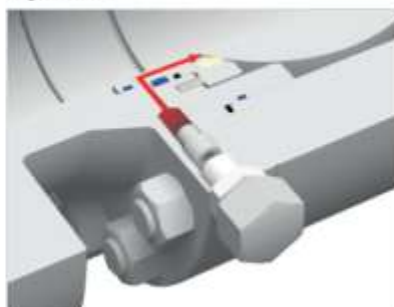


ON REQUEST

Double piston effect



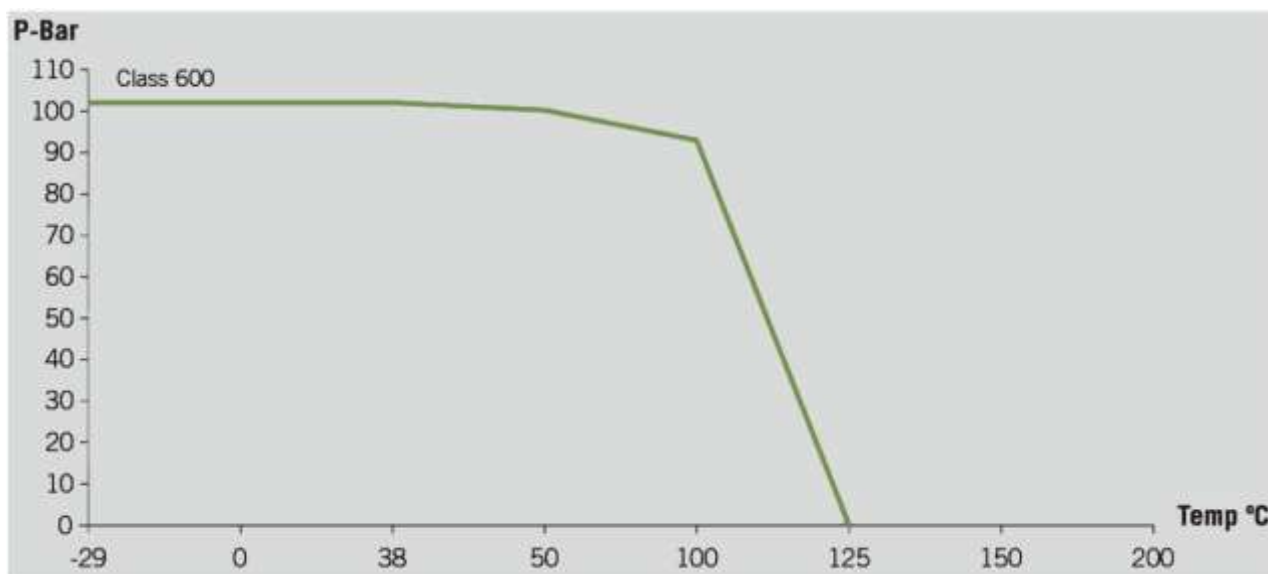
**Emergency sealing
injection**



Scraper



PRESSURE / TEMPERATURE GRAPH (STEAM EXCLUDED) :



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FLOW COEFFICIENT Kvs (in m³ / h) :

NPS (")	2"	3"	4"	6"	8"	10"	12"
DN (mm)	50	80	100	150	200	250	300
Kvs (m ³ / h)	230	650	1346	3561	7232	12175	19330

TORQUE VALUE (in Nm without safety coefficient) at 100 bars :

NPS (")	DN (mm)	BTO*	RTO	ETO	BTC	RTC	ETC*	MAST
2"	50	121	61	73	91	61	97	262
3"	80	259	129	155	194	129	207	559
4"	100	438	219	263	328	219	350	769
6"	150	897	448	538	672	448	717	1691
8"	200	1843	921	1106	1382	921	1474	3137
10"	250	3619	1810	2171	2714	1810	2895	4076
12"	300	5093	2547	3056	3820	2547	4074	6556

BTO* : Break to open

ETC* : End Torque Close

RANGE :

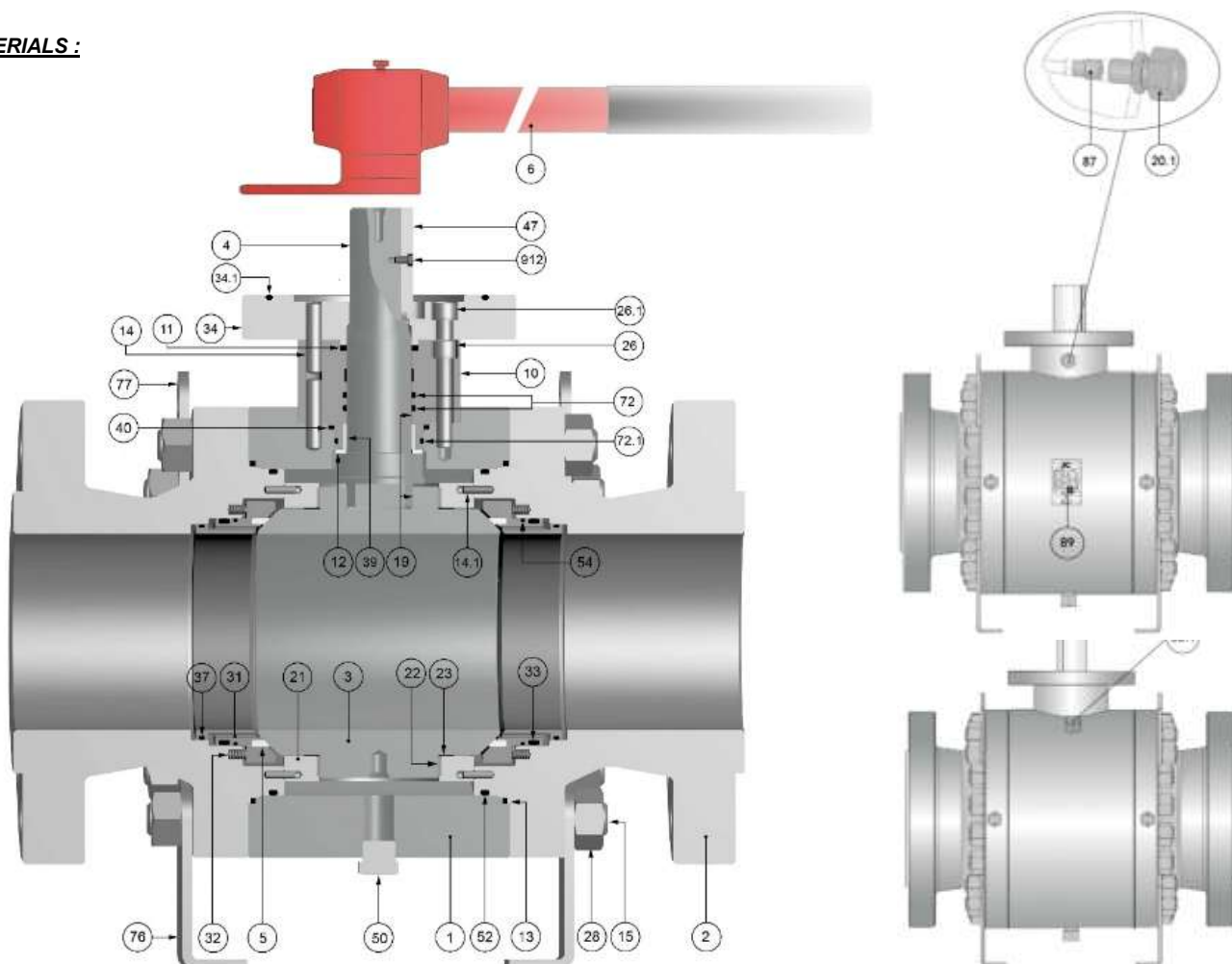
- Trunnion Carbon steel body ball valve with handle flanged Class 600 **Ref. 6060AIDV** from DN50 to DN100 (NPS 2" to 4")
- Trunnion Carbon steel body ball valve with gearbox flanged Class 600 **Ref. 6060AIDV** from DN150 to DN300 (NPS 6" to 12")

ENDS:

- Class 600 R.F. Flanges

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MATERIALS :

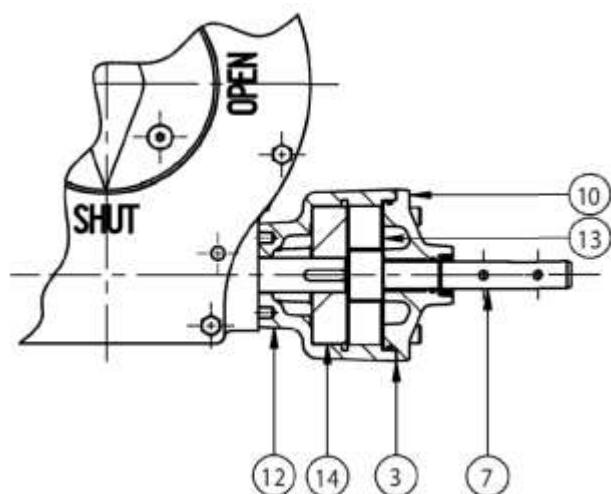
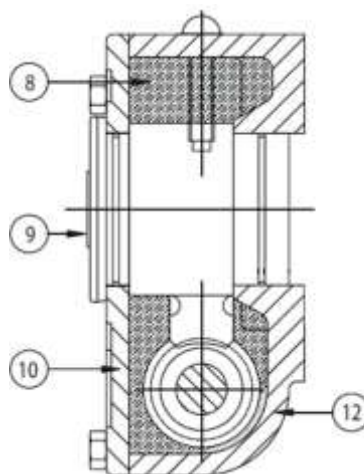
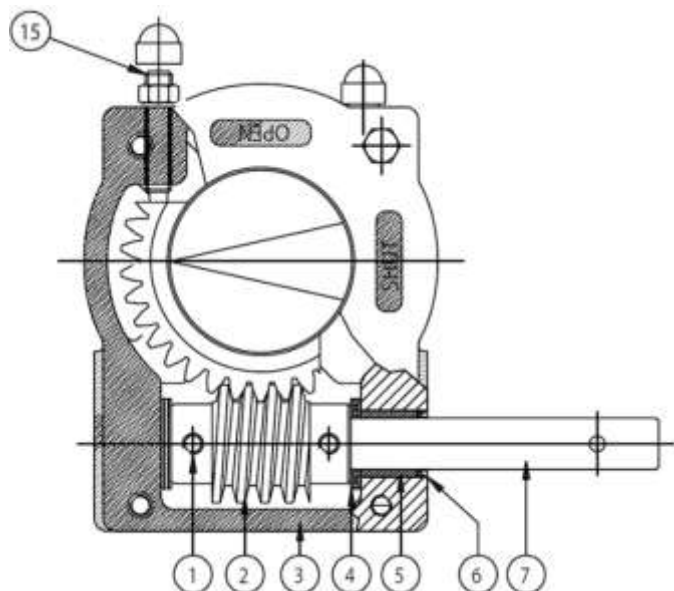


Item	Designation	Material	Item	Designation	Material
1	Body	ASTM A105N	28	Nut	A 194 Gr.2HM + Zinc Bichromated
2	Body Connector		31	Seat carrier	ASTM A182 F316
3	Ball	ASTM A182 F316	32	Spring	Inconel – 750
4	Stem		33	O-Ring	FKM
5	Seat	DEVLON	34	Mounting flange	ASTM A105N
6	Lever	ASTM A216 Gr. WCB	34.1-37	O-Ring	FKM
10	Gland	ASTM A105N	39	Stem bushing	AISI 316 + PTFE
11	Gland packing	Graphite	40	Gasket	Graphite
12	Stem thrust seal	PTFE filled with 25% glass	47	Key	Steel
13	Body connector seal	Graphite	50	Drain plug	ASTM A105N
14-14.1	Pin	Steel	50.1	Vent plug	
15	Stud	A193 Gr. B7M + Zinc Bichromated	52	O-Ring	FKM
19	Antistatic device	Stainless steel	54	Seat carrier seal	Graphite
20.1	Stem injection fitting	ASTM A105N/ A350 Gr. LF2	72-72.1	O-Ring	FKM
21	Ball Trunnion		76*	Support Legs	ST 235 N
22	Trunnion bearing	AISI 316 + PTFE	77*	Lifting lugs	
23	Bearing	PTFE filled with 25% glass	87	Check valve	ASTM A276 Tp.316
26-26.1	Bolt	A193 Gr. B7M + Zinc Bichromated	89	Name plate	
<i>*from the DN150</i>			912	Bolt	A4-70

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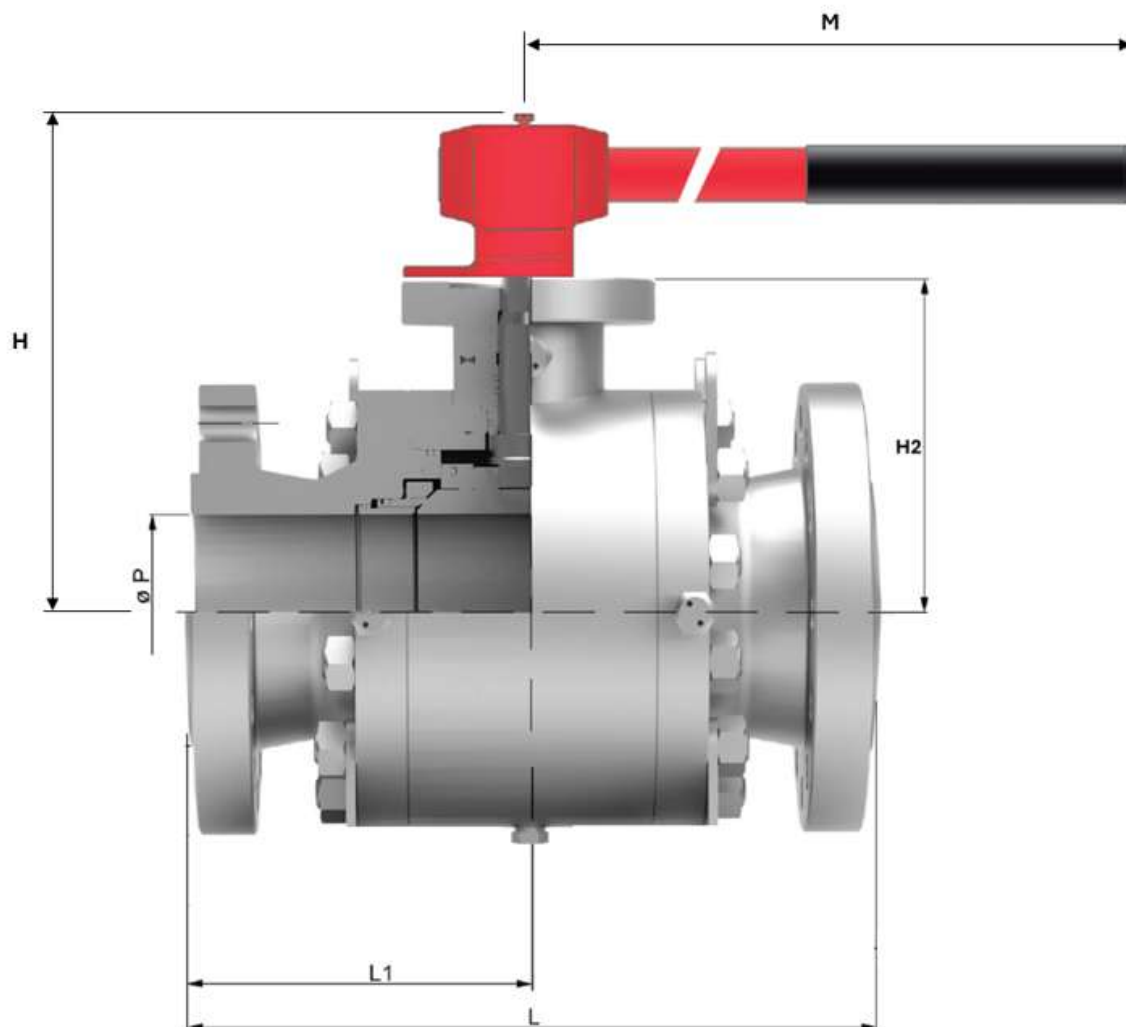
LOCKABLE GEARBOX MATERIALS :



Item	Designation	Material
1	Hex bolts	Steel
2	Worm	
3	Gasket	Rubber
4	Axial bearing	hardened steel
5	Bushing	copper alloy
6	Oil seal	Nitrile
7	Shaft	AISI 1045
8	Grease	Renolit CLX2
9	Position indicator	Polypropylene
10	Coverplate	cast iron
12	Body	
13	Gear	Steel
14	Carrier	
15	Stop screw	

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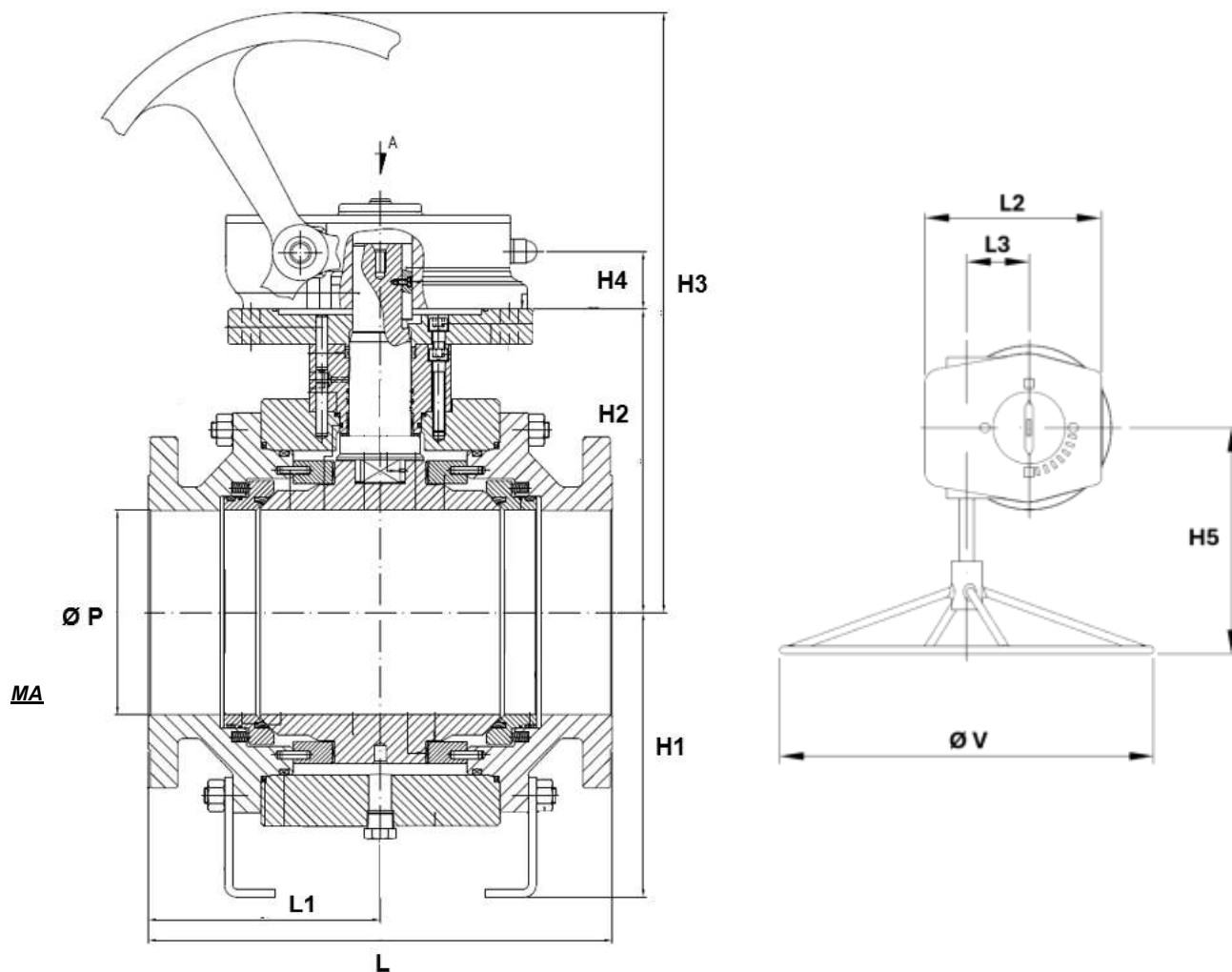
SIZE DN50-100 (in mm) :



NPS (")	2"	3"
DN (mm)	50	80
Ø P	49	74
L	292	356
L1	146	178
H2	120.5	163
H	207	270
M	610	665
Weight (in Kg)	34	72
Ref.	6060AIDV050	6060AIDV080

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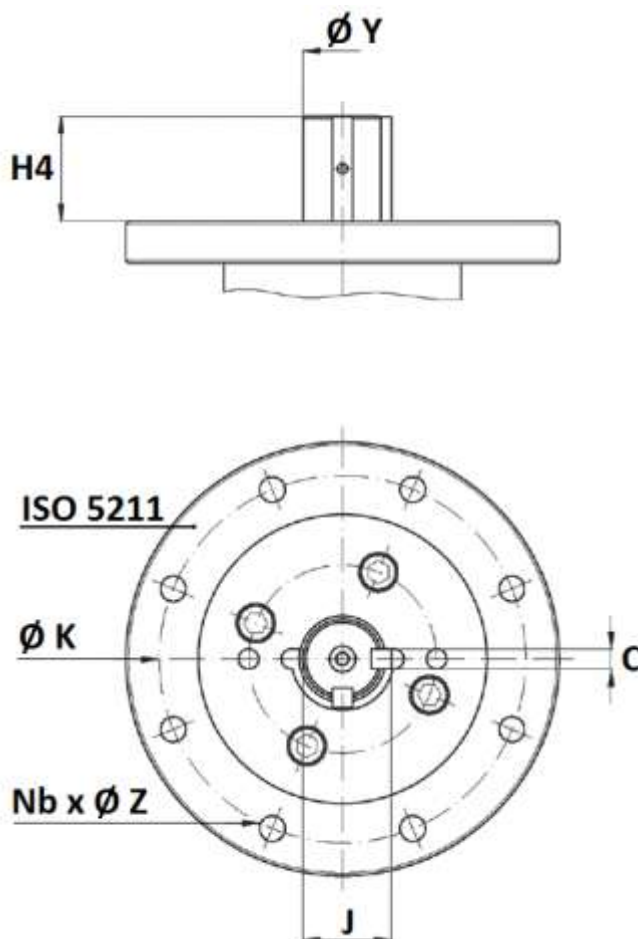
SIZE DN150-300 (in mm) :



NPS (")	4"	6"	8"	10"	12"
DN (mm)	100	150	200	250	300
Ø P	100	150	201	252	303
L	432	559	660	787	838
L1	216	279.5	330	393.5	419
H1	190	250	295	350	400
H2	180.5	258	308.5	353.5	413.5
H3	424.5	655	669.5	716.5	840.5
H4	44	47	61	63	77
L2	138	226	293	322.5	337
L3	71	86	53	130	140
H5	331	339	382	451	464
Ø V	400	700	600	600	700
Weight (in Kg)	134	287	523	826	1223
Ref.	6060AIDV100	6060AIDV150	6060AIDV200	6060AIDV250	6060AIDV300

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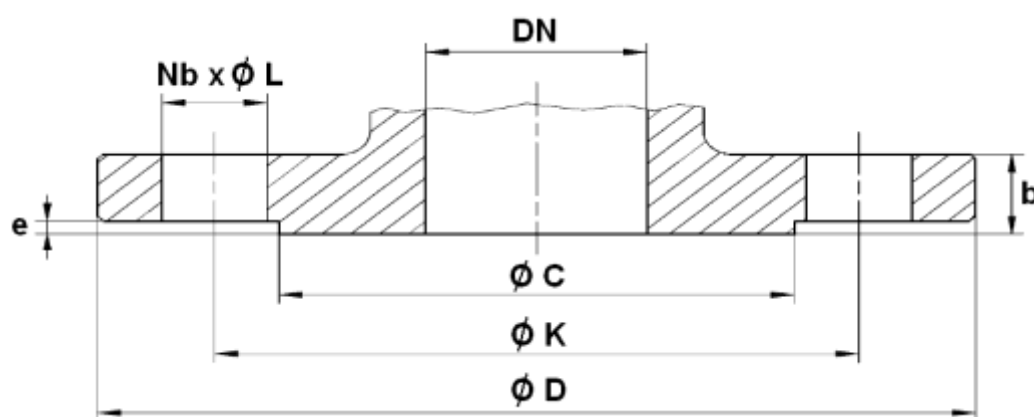
STEM AND ISO PLATE SIZE (in mm) :



NPS (")	2"	3"	4"	6"	8"	10"	12"
DN (mm)	50	80	100	150	200	250	300
H4	37	50	52	66.5	79	107	105.5
C	8	10	10	14	18	20	22
J	27.8	38.2	38.2	48.4	64.1	74.5	90.4
Ø Y	24.9	34.9	34.9	44.9	59.9	69.9	84.9
Ø K	102	125	125	165	254	254	254
ISO	F10	F12	F12	F16	F25	F25	F25
N x Ø Z	4 x 11	4 x 13.5	4 x 13.5	4 x 22	8 x 18	8 x 18	8 x 18

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FLANGES SIZE (in mm) :



NPS (")	2"	3"	4"	6"	8"	10"	12"
DN (mm)	50	80	100	150	200	250	300
Ø C	91.9	127	157.2	215.9	269.7	323.8	381
Ø D	165	210	273	356	419	508	559
Ø K	127	168.1	215.9	292.1	349.2	431.8	489
Nb x Ø L	8 x 19.1	8 x 22.2	8 x 25.4	12 x 28.6	12 x 31.8	16 x 34.9	20 x 34.9
b	31.8	38.2	44.5	54.2	62	69.9	72.9
e	6.4						

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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
 - DN50-100 : Risk Category II, CE0056 marking
 - DN150-300 : Risk Category III, CE0056 marking
- Certificate 3.1 on request
- Valve designing according to ISO 17292, API 6D and ASME B16.34
- Body design according to ASME VIII Div.1
- Materials according to NACE MR 01-75
- Pressure Tests according to API 598
- Marking according to EN 19
- Fire safe according to ISO 10497 : 2004 and API 607 5th
- Fugitive Emissions according to EN 15848-1 : 2006 B Class and TA LUFT VDI 2440
- SIL2 according to IEC/EN 61508, SIL 3 possible according to the type of installation
- Flanges R.F. type B1 Class 600 according to ASME B16.5
- ISO 5211 mounting pad
- Length according to ASME B16.10 Table 3 Column 1 (EN 558 series 5)
- ATEX Group II Category 2 G/2Dc Zone 1 & 21 Zone 2 & 22 (optional marking) according to directive 2014/34/EU
- Russian certificate TRCU 10, TRCU 12 and TRCU 32 (EAC marking and declaration **on request**)

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