

SERIE 03
03118

Wafer ball valves Stainless steel

Nominal diameter options (DN) 15-100
Nominal pressure options (PN) 16-40
Maximum working temperature 180°C



APPLICATIONS:

Chemical products, food plants, distribution lines for gas, air, water.

Suitable for average vacuum, steam up to 200°C with PTFE+CARBOGRAPHITE SEATS. Silicone free.

FEATURES:

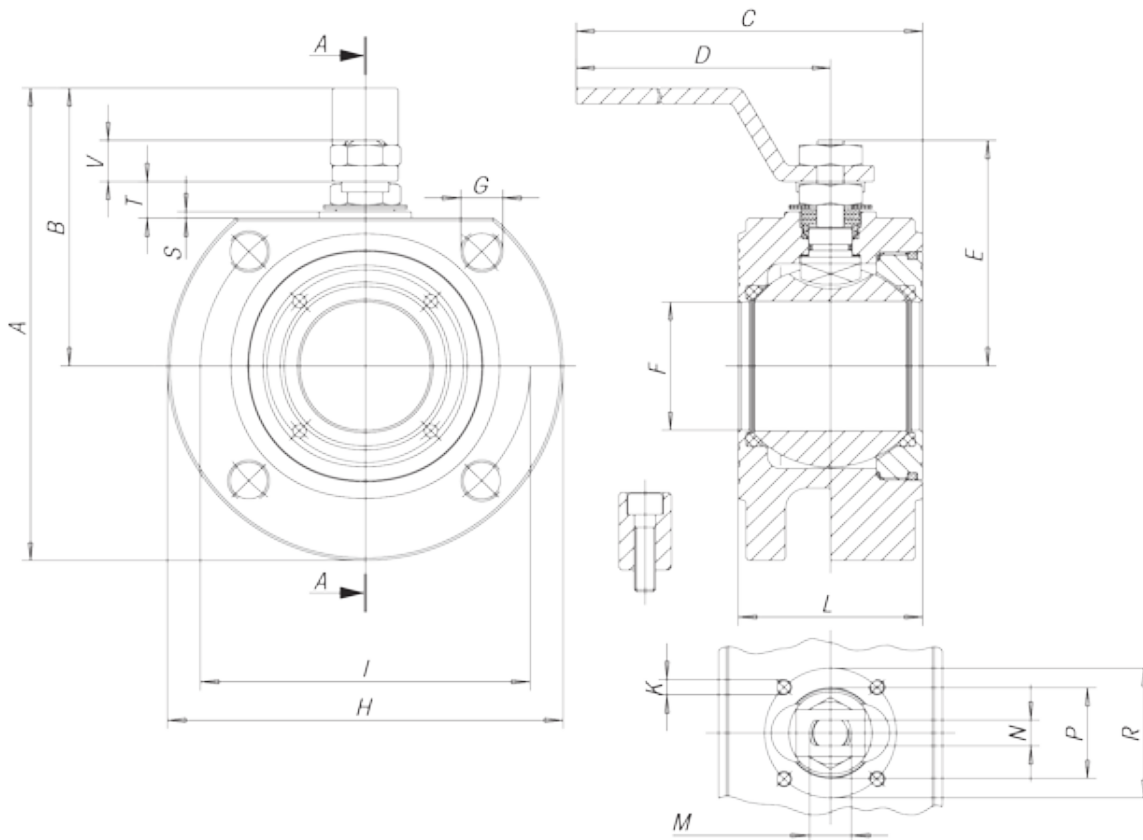
- CONSTRUCTION: AISI 316 (body from casting)
AISI 316L (body from bar)**
AISI 304.
- STANDARDS: BS EN ISO 17292:2004.
- CERTIFICATION: **Fire safe** according to BS 6755 – API 6 FA – API 607
DVGW for gas (-20°C + 60°C) PN16, TÜV for TA Luft (only PTFE).
- PRESSURES: PN16/40 DN15 - DN100 body from BAR
PN16 DN40 - DN100 body from CASTING.
- TEMPERATURE LIMITS: -20°C / +180°C (PTFE).
- CONNECTIONS with flanges: UNI-EN 1092 and DIN2501 BL.1.
- FLANGE DRILLING: metric.
- STEM: Anti blow out with anti-static device.
- ANTISTATIC DEVICE: starting from DN25 (upon request DN15-DN20).
- SEAL: triple patented stem-packing with labyrinth effect and automatic adjustment by washers.
- UPPER CONNECTION: ISO 5211.
- OPERATOR: lever.

* Ball valve can be equipped with hydraulic, pneumatic or electric actuator. Ask more from Econosto Oy.

ADDITIONAL INFORMATION

- PTFE+15% GLASS FIBRE: -20°C + 190°C.
- PTFE + CARBOGRAPHITE: +200°C (optimum from 60°C to 200°C).
- Peek for high temperatures up to +260°C. (optimum condition from 100°C to 260°C).
- PTFE with metal core (on request).
- Integral seal in PTFE DN15 – DN100 from bar.
- PN40 (DN40 – DN100) (from bar).
- PLAIN AND THROUGH DRILLED FLANGE DRILLING.
- Reduction gears with manual operator.
- Heating jacket (see series MOON CR).
- Ball drilling.
- Degreased for oxygen service.
- Body – ring nut – stem – ball made of AISI316L.
- Bottom valve (tie-rods are also supplied).
- For further special requests please consult us
- PN64.

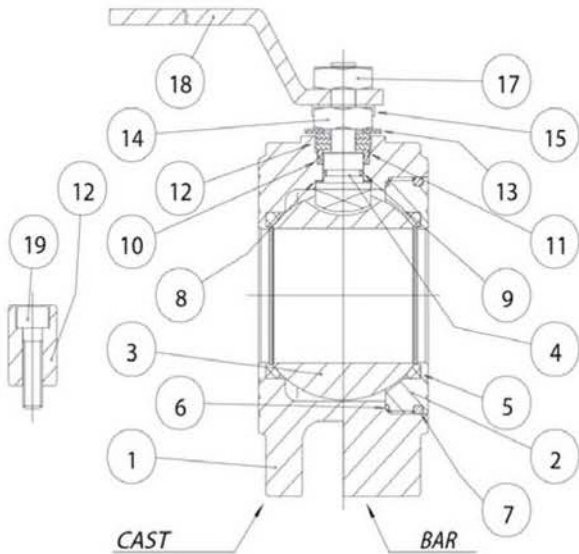
TECHNICAL INFORMATION



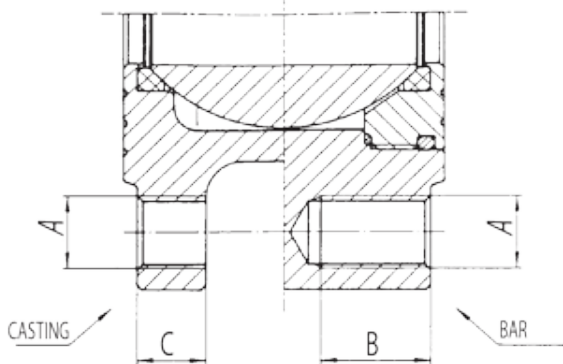
SIZE	A	B	C	D	E	F	G	H	K	I	L	M	N	P	R	S	T	V	N. Holes	PN	ISO	Weight in gr.
DN15	110	65	160	140	48	15	M12	90	M5	65	35	M10	6	25	36	2	8	9	4	40	F03	1345
DN20	120	70	160	140	51	20	M12	100	M5	75	38	M10	6	25	36	2	8	9	4	40	F03	1810
DN25	137	82	200	180	62.5	25	M12	110	M5	85	43	M12	8	30	42	2	11.5	11.5	4	40	F04	2505
DN32	150	85	205	180	67	32	M16	130	M5	100	50	M12	8	30	42	2	9.5	11.5	4	40	F04	3995
DN40	172	102	260	230	80	40	M16	140	M6	110	60	M16	10	35	50	2.5	14	16	4	16	F05	4190
DN50	185	110	265	230	87	50	M16	165	M6	125	70	M16	10	35	50	2.5	14	16	4	16	F05	5790
DN65	225	137.5	400	350	119.5	65	M16	185	M8	145	95	M22	14	55	70	3	18.7	20.8	4	16	F07	10200
DN80	245	150	410	350	129.5	78	M16	200	M8	160	118	M22	14	55	70	3	18.7	20.8	8	16	F07	13700
DN100	275	165	580	508	148.5	96	M16	220	M10	180	140	M27	16	70	102	3	22.2	25.3	8	16	F10	20000

For DN 125 to DN 200 see "SELENE" split body wafer valve

TECHNICAL INFORMATION



REF.	PART	MATERIAL	DIN MAT.	QTY
1	BODY	AISI 316/CF8M	1.4408/1.4401	1
2	THREADED LOCKING RING	AISI 316	1.4401	1
3	BALL	AISI 316	1.4401	1
4	STEM	AISI 316	1.4401	1
5	SEAT	PTFE		2
6	SIDE SEALING RING	PTFE		1
7	O-RING	NBR		1
8	UPPER RING	PTFE		2
9	STEM O-RING	VITON		1
10	UPPER SEALING COUPLE	PTFE		1
11	PACKING GLAND	AISI 304	1.4301	1
12	OPERATION STOP	S.S.		1
13	BELLEVILLE WASHERS	50CrV4		2
14	STEM RETAINING NUT	S.S.		1
15	FIXING NUT PLATE	AISI 304	1.4301	1
17	LOCKING NUT	S.S.		1
18	LEVER HANDLE	S.S.		1
19	OPERATION STOP SCREW	S.S.		1



FLANGE DRILLINGS UNI2223-67

SIZE	A	B (PN40)	C (PN16)
DN15	M12	14	0
DN20	M12	16	0
DN25	M12	16	0
DN32	M16	18	0
DN40	M16	18	13
DN50	M16	18	15
DN65	M16	20	15
DN80	M16	24	17
DN100	M16	20	17
DN100	M20	24	0

FLANGE DRILLINGS ANSI 150

SIZE	A	B (PN40)	C (PN16)
DN15	1/2"	13	0
DN20	1/2"	14	0
DN25	1/2"	16	0
DN32	1/2"	17	0
DN40	1/2"	19	0
DN50	5/8"	20	(*) 16.4 (17.4)
DN65	5/8"	24	(*) 16.4 (20.6)
DN80	5/8"	24	(*) 18.4 (22.2)
DN100	5/8"	24	(*) 18.4 (22.2)

DN size	15	20	25	32	40	50	65	80	100
0	4	7	10	16	25	35	55	75	150
16	4.8	8.5	11.3	19	28	39	59	84.5	168
25	5.2	9.1	12	20.5	29.5	41.5	62.5	92	180
40	6	10.5	13	22.5	31.5	44	67	99	195

The values in Nm may vary as a function of the seals material, temperature and type of medium. For a firm operation of the various types of actuators, in the different working conditions it is necessary to consider a safety factor of 1.5. During operation, with frequent open and close cycles, the operating torque can decrease considerably in comparison with the initial breakaway torque.

