MOON 3W ANSI



Marine & Offshore

BUREAU VERITAS

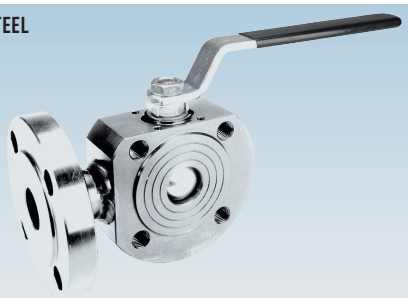
TYPE APPROVAL CERTIFICATE
(AISI36L max.580 PSI CWP)

FUGITIVE EMISSIONS
TEST CERTIFICATE
UNI EN ISO 15848-1:2017

SIL (IEC 61508)

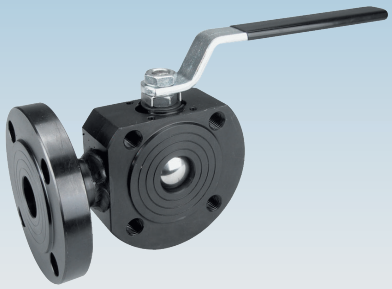
Atex CE II 2 G D*
* on request

STAINLESS STEEL



art. NA0A	AISI 316L L pattern from 1/2" to 4" ANSI 150
art. NF0A	AISI 316L T pattern from 1/2" to 4" ANSI 150

CARBON STEEL



art. NC0A	A105 L pattern from 1/2" to 4" ANSI 150
art. NH0A	A 105 T pattern from 1/2" to 4" ANSI 150

MAIN STANDARD FEATURES:

- **CONSTRUCTION:** AISI 316L from bar and ASTM A 105 from bar.
- **STANDARDS:** BS EN ISO 17292:2004.
- **DIAMETERS:** DN15 - DN100.
- **TEMPERATURE LIMITS:** -4°F / +356°F 316L (PTFE)
  14°F / +356°F A105 (PTFE)
  -4°F / +356°F LF2 (PTFE).
- **CONNECTIONS with flanges:** AISI 150 B15.5RF
- **FLANGE DRILLING:** metric (on request unc).
- **STEM:** Anti blow out with anti-static device.
- **ANTISTATIC DEVICE:** starting from 1" (upon request 1/2"-3/4").
- **STEM:** triple patented stem-packing with labyrinth effect and automatic adjustment by Belleville washers.
- **CONNECTION:** ISO 5211 for connection to actuators.
- **OPERATION DEVICE:** lever. Available colours: black, yellow.

GENERAL APPLICATIONS:

ON-OFF valve for: deviation or mixing of fluids and gases in general installations. For special application please check the suitability of the valve for the process and the required corrosion resistancy using the relevant table.

SPECIAL EXECUTIONS:

- **PTFE+15% GLASS FIBER:** + 374°F.
- **PTFE+CARBOGRAPHITE:** + 392°F (optimum from 14°F to 392°F).
- Ball with relief hole
- Reduction gears with manual operator.
- Stem extensions 2 inch. and 4 inch.
- For further special requests please consult our technical/commercial service.

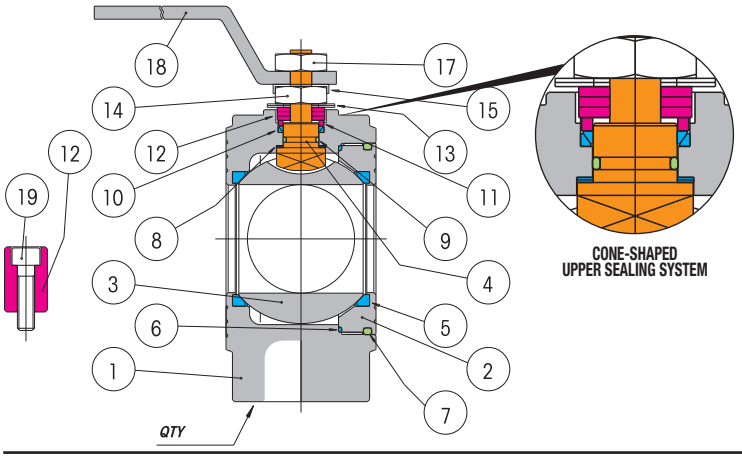
EFFEBI®

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UNI EN ISO 9001: 2015
ISO 14001:2015

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ANSI

CONSTRUCTION

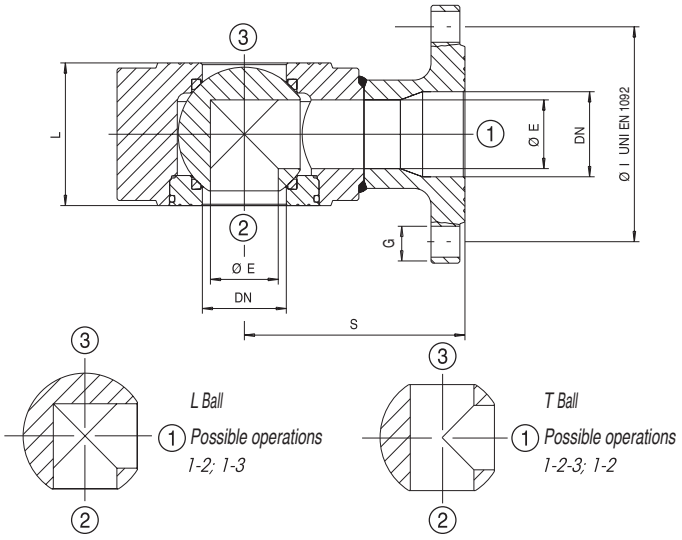


- Internal stop up to DN20 included
- External stop (see ⑫ ⑲) from DN25

LIST OF COMPONENTS AND MATERIALS

			AISI 316L	A105	Q.TA
1		BODY	AISI 316L	ASTM A105	1
2		RING NUT	AISI 316	ASTM A105	1
3		BALL	AISI 316	AISI 316	1
4		STEM	AISI 316	AISI 304	1
5		SEAT	PTFE	PTFE	2
6		SIDE SEALING RING	PTFE	PTFE	1
7		O-RING	NBR	NBR	1
8		UPPER SEALING RING	PTFE	PTFE	2
9		STEM O-RING	VITON	VITON	1
10		UPPER SEALING COUPLE	PTFE	PTFE	1
11		GLAND WASHER	AISI 304	AISI 304	1
12		STOP	AISI 304	AISI 304	1
13		BELLEVILLE WASHERS	AISI 301	50CrV4	2
14		STEM RETAINING NUT	AISI 304	C.S.	1
15		FIXING NUT PLATE	AISI 304	AISI 304	1
17		LOCKING NUT	AISI 304	C.S.	1
18		LEVER	AISI 304	C.S.	1
19		STOP SCREW	AISI 304	C.S.	1

SECTION



SIZE	ØE	ØI	L	S	N° G	ØG	WEIGHT Lbf.
1/2"	0.39	2.37	1.37	3.34	4	0.62	4.7
3/4"	0.59	2.74	1.49	3.53	4	0.62	6.3
1"	0.79	3.12	1.69	3.53	4	0.62	8.1
1"1/4	0.98	3.49	2.12	4.12	4	0.62	13.5
1"1/2	1.26	3.86	2.59	4.71	4	0.62	17.8
2"	1.69	4.74	3.26	5.11	4	0.75	24.6
2"1/2	2.36	5.49	4.04	5.89	4	0.75	42.9
3"	2.75	5.98	4.79	6.87	4	0.75	55.3
4"	3.30	7.48	6.01	7.66	8	0.75	99.9

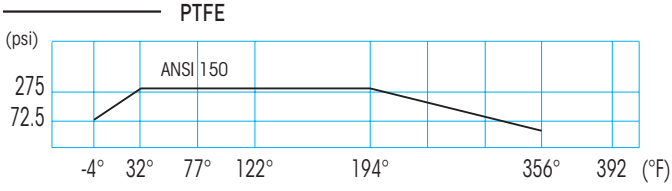
For dimensions not shown here please refer to the relevant tables of the series MOON ND.

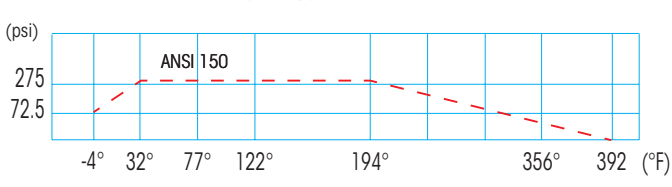
BREAKAWAY TORQUES in Lbf/inch.

	size	1/2"	3/4"	1"	1" 1/4	1/2"	2"	2" 1/2	3"	4"
psi	0	35.4	61.9	88.5	141.6	221.2	309.7	486.7	663.7	1327.5
	232	42.4	75.2	100	168.1	247.8	345.1	522.1	747.8	1486.8
	275	46	80.5	106.2	181.4	261.1	367.2	553.1	814.2	1593
	580	53.1	92.9	115.1	199.1	278.7	389.4	592.9	876.15	1725.7

The values in Lbf/inch. may vary depending on the seat material, temperature and type of fluid.
For reliable operation of various types of actuators, in different working conditions, is recommended a safety factor of 1.5 (for PTFE).

PRESSURE/TEMPERATURE DIAGRAM





For Specifications about the Pressure-temperature Diagram and installation instructions