

MOON A 105

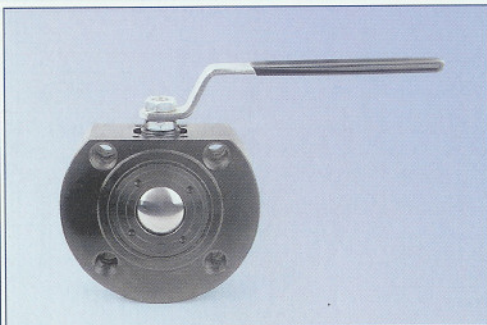
WAFER BALL VALVE - FULL BORE

MAIN STANDARD FEATURES

- CONSTRUCTION: ASTM A 105
- General prescriptions: BS 5351
- Certifications FIRE SAFE to: BS 6755 - API 6 FA - API 607
DVGW for gas
TÜV for TA Luft
- DIAMETER: from DN 15 to DN 100
(for DN 125 to DN 200 see SELENE valve)
- PRESSURES: PN 16/40 from DN 15 to DN 50 and DN 80
PN 16 for DN 65 and DN 100
- TEMPERATURE LIMITS: from -20°C to +180°C
- CONNECTIONS with flanges: UNI 2223-2229 and DIN 2501 BL 1
- FLANGE DRILLING: METRIC
- BLOW-OUT PROOF stem with antistatic device
- WRAPPING SEATS
- TRIPLE stem-packing with labyrinth effect and automatic adjustment by Belleville washers
- ISO 5211 mounting plate for actuators
- OPERATION device: lever handle

SPECIAL EXECUTIONS

- 15% GLASS-FILLED PTFE with temperature limits -20°C + 195°C
- PTFE+CARBOGRAPHITE with temperature limits -20°C + 210°C
- Integral seats in PTFE from DN 15 to DN 100
- DN 65 and DN 100 PN 25/40: metric drilled flanges
- From 1/2" to 4" ANSI 150: through drilled flanges
- Reduction gear with manual operation
- Stem extensions: 50 mm or 100 mm
- Yellow lever handle for gas
- Heating jacket (see MOON CR series)
- Drilled ball and unidirectional valve
- For further special requests please consult our technical/commercial service



STANDARD PART NUMBERS

Art. 2881

standard

Art. 2891

with ball in brass

GENERAL APPLICATIONS

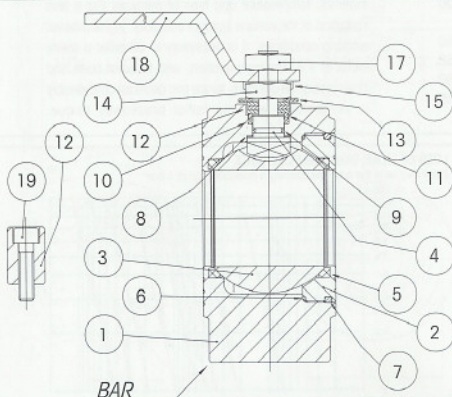
Use as an ON-OFF valve for: distribution lines for gas, air, water. Suitable for vacuum 1-10⁻³ STD CC, steam up to +195°C with PTFE+CARBOGRAPHITE and for industrial installations in general.

Thanks to its reduced face to face dimensions and its intrinsic features it offers wide applications in new projects also as an alternative to the split body valve. For special utilizations ascertain the compatibility with process features and the corrosion resistance also by the relevant table.

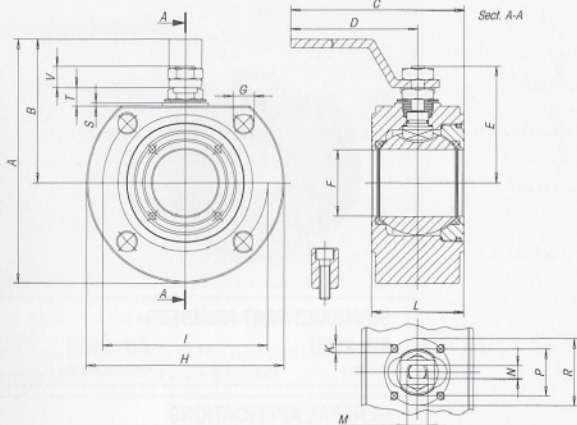
LIST OF COMPONENTS AND MATERIALS

REF.	PART	MATERIAL	DIN MAT.	QTY
1	BODY	ASTM A105		1
2	THREADED LOCKING RING	ASTM A105		1
3	BALL	vedi sotto		1
4	STEM	AISI 304	1.4301	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./C.S.		1
13	BELLEVILLE WASHERS	50CrV4		2
14	STEM RETAINING NUT	C.S.		1
15	FIXING NUT PLATE	AISI 304	1.4301	1
17	LOCKING NUT	C.S.		1
18	LEVER HANDLE	C.S.		1
19	OPERATION STOP SCREW	C.S.		1

Ball: Art. 2881 DN15-32 AISI 316; DN 40-100 AISI 304
Art. 2891 DN15-100 with ball in brass



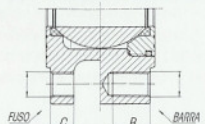
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WAFER BALL VALVE - FULL BORE

FLANGE DRILLINGS UNI223-67

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	(18.4)(17.6)
DN65	5/8"	24	(18.4)(20.6)
DN80	5/8"	24	(18.4)(22.2)
DN100	5/8"	24	(18.4)(22.2)



SIZE	A	B	C	D	E	F	G	H	K	I	L	M	N	P	R	S	T	V	N Holes	PN	ATT.	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	40	F05	5540
DN50	185	110	265	230	87	50	M16	150	M6	125	70	M16	10	35	50	2.5	14	16	4	40	F05	7300
DN65	225	137.5	400	320	119.5	65	M16	175	M8	145	95	M22	14	55	70	3	18.7	20.8	4	16	F07	15000
DN65	225	137.5	400	320	119.5	65	M16	175	M8	145	95	M22	14	55	70	3	18.7	20.8	8	40	F07	15000
DN80	245	150	410	320	129.5	78	M16	190	M8	160	118	M22	14	55	70	3	18.7	20.8	8	40	F07	19500
DN100	275	165	580	370	148.5	96	M16	220	M10	180	140	M27	16	70	102	3	22.2	25.3	8	16	F10	31500
DN100	291	173	580	370	156.5	96	M20	235	M10	190	140	M27	16	70	102	3	22.2		8	40	F10	37000

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

BREAKAWAY TORQUES IN Nm

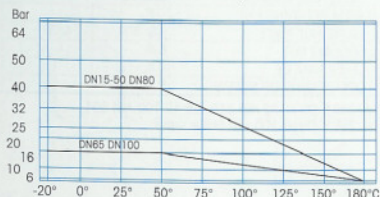
DN size	15	20	25	32	40	50	65	80	100	
PN - bar	0	4	7	10	16	25	35	55	75	150
	16	4.8	8.5	11.3	19	28	39	59	84.5	166
	25	5.2	9.1	12	20.5	29.5	41.5	62.5	92	180
	40	6	10.5	13	22.5	31.5	44	67	99	195

Nm

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.

PRESSURE/TEMPERATURE DIAGRAM

At each pressure level corresponds the admissible temperature level.


LOSS OF HEAD DIAGRAM/FLOW RATE

The Kv value is the flow rate causing a pressure drop of 1 bar

