

**WAFER BALL VALVES
Model 170**

ENG

DESCRIPTION

The Model 170 series wafer ball valves are isolating valves designed for use on steam, condensate and other gases and liquids compatible with the construction.

The valve is not designed as a control valve and should be used only as an isolating valve, fully open or fully closed.

Connections are flanged wafer.



MAIN FEATURES

Full bore floating ball design.

Bidirectional.

Anti blow out proof stem.

Antistatic device.

ISO 5211 mounting.

OPTIONS: Different sealing materials.
Lever extension for insulation.

USE: Steam, gases and liquids compatible with the construction.

AVAILABLE MODELS: Model 170 – Carbon steel.
Model 170 – Stainless steel.

RATING: PN16.

SIZES: DN 15 to DN 150.

CONNECTIONS: Flanged EN1092-1 PN16.

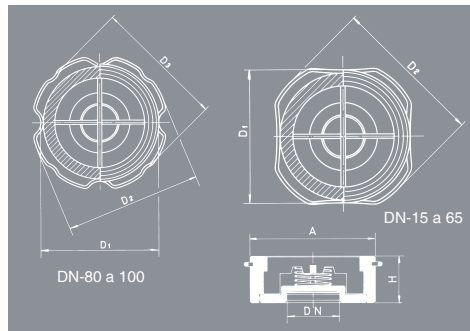
INSTALLATION: See IMI – Installation and maintenance instructions.

CE MARKING – GROUP 2 (PED – European Directive)	
PN16	Category
DN 15 to DN 50	SEP
DN 65 to DN 150	1 (CE marked)

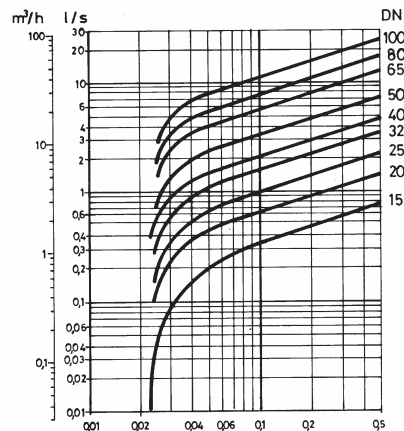
N°. PIECE	PIECE	MATERIAL											
		BRONZE	CARBON STEEL	STAINLESS STEEL									
1	Body	Bronze (DIN-2.1086.04)	Carbon steel (EN-1.0580)	Stainless steel (EN-1.4401)									
2	Seating	Bronze (DIN-2.1086.04)	Stainless steel (EN-1.4028)	Stainless steel (EN-1.4401)									
3	Sealing disc	Stainless steel (EN-1.4401)	Stainless steel (EN-1.4401)	Stainless steel (EN-1.4401)									
4,5	Spring press	Stainless steel (EN-1.4401)	Stainless steel (EN-1.4401)	Stainless steel (EN-1.4401)									
6	Spring	Stainless steel (EN-1.4571)	Stainless steel (EN-1.4571)	Stainless steel (EN-1.4571)									
7	Centering ring	Stainless steel (EN-1.4310)	Stainless steel (EN-1.4310)	Stainless steel (EN-1.4310)									
DN		15 to 100											
OPERATING CONDITIONS		16	14	13	40	35	28	21	40	34	32	29	
PRESSURE IN bar		16	15	14	13	40	35	28	21	40	34	29	
MAXIMUM TEMP. IN °C		120	180	200	250	120	200	300	400 ⁽¹⁾	120	200	300	400 ⁽¹⁾
MINIMUM TEMP. IN °C		-60				-10				-60			

(1) For temperatures exceeding 300°C without spring only or depending on demand, with special spring.

DN		15	20	25	32	40	50	65	80	100		
		RING I	RING II	RING III								
H ₁		17	20	22	28	32	40	46	50	60	—	—
A ₁		44,5	54,5	64,5	75	84		117	133	153	—	—
D ₁		44,5	54,5	64,5	75	84	97,5	117	133	153	—	—
D ₂		52	65,5	72	83	93,5		127	154	168,5	192	178
D ₃		—	—	—	—	—	97,5	—	142,5	162,5	176	173
WEIGHT IN Kg.	BRONZE	0,14	0,24	0,35	0,56	0,82	1,10	2,15	2,90	4,02		
	CARBON STEEL	0,11	0,21	0,30	0,51	0,75	1,05	1,92	2,70	3,90		
	STAINLESS STEEL	0,11	0,21	0,30	0,51	0,75	1,05	1,92	2,70	3,90		
CODE	BRONZE	2003-170.5021	2003-170.5341	2003-170.5101	2003-170.5141	2003-170.5121	2003-170.5201	2003-170.5221	2003-170.5301	2003-170.5401		
	CARBON STEEL	2003-170.8024	2003-170.8344	2003-170.8104	2003-170.8144	2003-170.8124	2003-170.8204	2003-170.8224	2003-170.8304	2003-170.8404		
	STAINLESS STEEL	2003-170.8022	2003-170.8342	2003-170.8102	2003-170.8142	2003-170.8122	2003-170.8202	2003-170.8222	2003-170.8302	2003-170.8402		



DIRECTION OF FLUID FLOW	DN	OPENING PRESSURE IN mbar				FLOW COEFFICIENT	
		WITHOUT SPRING		WITH SPRING		Kv m ³ /h ΔP= 1 bar	Cv l/min ΔP= 1 Psi =0,07 bar
		▲	▲	▶	▼		
	15	2,51	22,00	20,50	17,00	3,96	15,80
	20	2,38	21,90	20,50	17,10	7,20	32,50
	25	1,96	21,50	20,50	17,50	10,80	49,20
	32	3,70	23,20	20,50	15,80	18,00	80,00
	40	4,00	23,50	20,50	15,50	23,00	105,00
	50	4,11	23,60	20,50	15,40	36,00	166,00
	65	4,95	24,40	20,50	14,60	60,00	306,00
	80	5,64	25,10	20,50	13,90	79,00	382,00
	100	6,81	26,30	20,50	12,70	118,00	540,00



$$Q_A = \sqrt{\frac{\rho}{1.000}} \cdot Q$$

Q_A = Flow equivalent to water
In m³/h.

ρ = Fluid density in operating
conditions in Kg/m³.

Q = Fluid flow in operating
conditions in m³/h.



CASPANI NUOVE TECNOLOGIE

Montano Lucino CO - Via dell'industria 3a

Tel 031/471714 Fax 031/470351

www.cntcaspani.com