

## H2 Invictus - PN700 hydrogen ball valve



宏 球阀

小类 H2 INVICTUS

优点



Made of ASTM A479 TP.316 with additional requirements for hydrogen service.

**Ball and stem**

Made of XM-19 (NITRONIC 50).

They combine high mechanical strength with a structure that minimises hydrogen embrittlement.

**Sealing**

Guaranteed by lip seals insensitive to rapid decompression phenomena.

Longer life due to its elastic module.

**H2 Ready**

All selected materials are suitable for 100% H2 service and verified by Material Assessment validated by TÜV SÜD.

**ISO 19880-3 certification**

Shut-off service - class "A".

Allows installation inside hydrogen fuelling stations with a designation up to H50.

**In compliance with ATEX 2014/34/UE european directive**

Installation is possible in a potential explosive environment.

**MAIN FEATURES:**

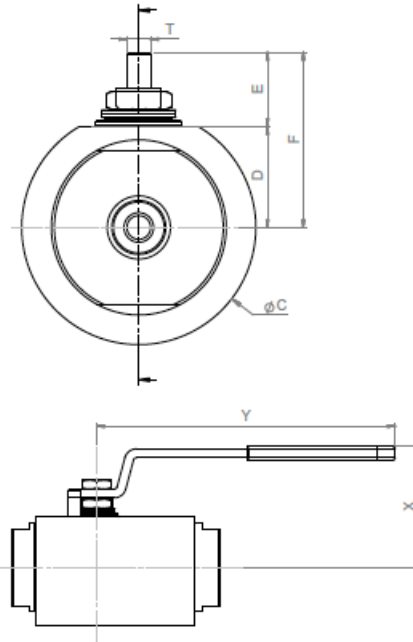
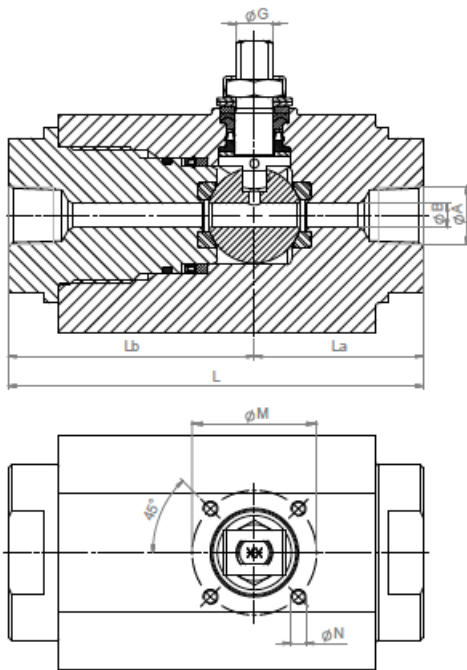
- Floating ball;
- 2-pieces body;
- PN700 / H50;
- Soft-seat seal PEEK;
- Operating temperature: -40°C/+ 85°C;
- NPT-F (ANSI B1.20.1) and Cone & Thread connections (on request);
- Size range:
  - from 1/8" to 1/2" with 8 mm passage diameter
  - from 3/4" to 1" with 12 mm passage diameter
- Antistatic device EN12266-2;
- Anti Blow-out stem;
- Actuator connection as per standard ISO 5211;
- Intercepted fluid: hydrogen;

**CERTIFICATIONS:**

- ISO 19880-3 certificate on request;
- Ex CE/UKCA;

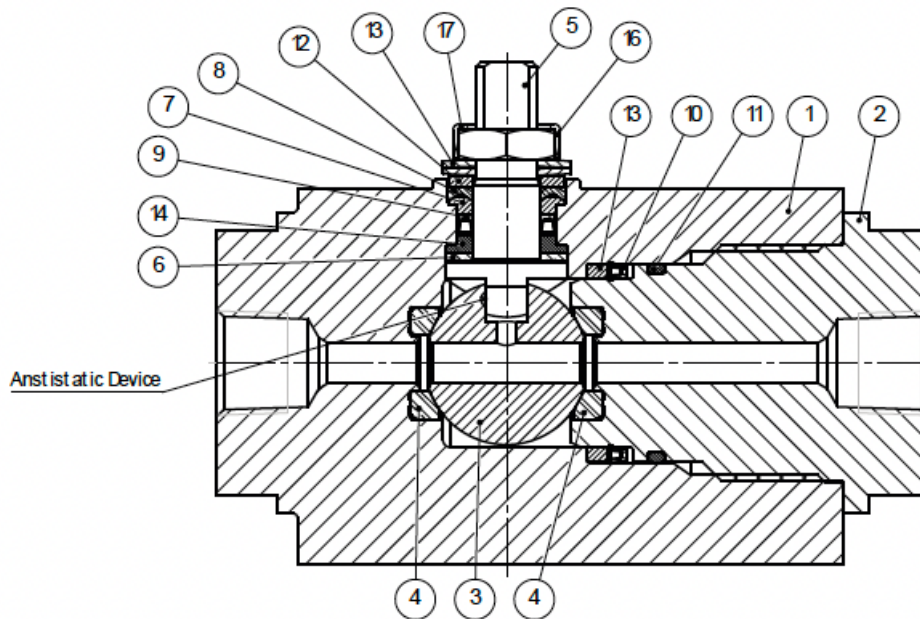
**ENGINEERING STANDARDS:**

- ISO 19880-1;
- ASME B16.34, ASME VIII div.1, EN 12516;



**DIMENSIONS**

NPS	DN	ØA	L	La	Lb	ØB	ØC	D	E	F	ØG	T	ISO 5211	ØM	ØN	Y	X	Weight Kg	
1/8"	06	1/8" NPT	140	57	83	8	79	34	25	59	12	8	F04	42	M5	201,5	81	4,8	
1/4"	08	1/4" NPT																4,8	
3/8"	10	3/8" NPT																4,7	
1/2"	15	1/2" NPT																4,6	
3/4"	20	3/4" NPT	160	67	93	12	98	41	31	72	16	10	F05	50	M6	276,5	93	8,2	
1"	25	1" NPT																	8,1



MATERIALS		
1	Body	A479 tp.316 / 1.4401
2	Ends	A479 tp.316 / 1.4401
3	Ball	A479 tp.XM19 (Nitronic 50) Hard Chromium plated
4	Seats	Filled PEEK
5	Stem	A479 tp.XM19 (Nitronic 50)
6	Bottom sealing	DEVLON
7	Lower Chevron ring	Filled PEEK
8	Upper Chevron ring	DEVLON
9	Primary stem seal	PEEK
10	Primary body seal	PEEK
11	Secondary body seal	FKM 90
12	Gland nut ring	A479 tp.316 / 1.4401
13	Spring washer	301 SS
14	Stem ring	A479 tp.XM19 (Nitronic 50)
16	Stem nut	A4-70
17	Stem nut plate	304 SS



OMAL S.p.A. Società Benefit

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## Certificati

ATEX - Ball Valves