







## **HYGIENIC BALL VALVES** M3H FULL BORE (DN 65 - 100 DIN)

## DESCRIPTION

M3H three piece body ball valves are isolating valves designed for use with clean steam, condensate and other gases and liquids used in high purity and aseptic processes.

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

The product is mainly designed for the pharmaceutical, biotech, semiconductor, cosmetics, fine chemical, food and beverage industries.

## MAIN FEATURES

Full bore floating ball design.

A351 CF3M body and ends with ferrite content of less than 2% and low sulphur between 0,005 and 0,017%.

Can be serviced without removal from pipeline.

Tube weld with loose body flanges (360° rotation after installation). Bidirectional.

Antistatic device.

Anti blow out proof stem.

ISO 5211 mounting.

## STANDARD SURFACE FINISH

Internal wetted parts: ≤ 0,51 micron Ra – SF1.

External: as casted. Ultrasonic cleaning.

**OPTIONS:** Different sealing materials.

Degreased for oxygen use.

Cavity filler.

USE: Clean steam, gases and liquids compatible with

the construction.

**AVAILABLE** 

MODELS: M3H – Investment casting.

SIZES: DN 65 to DN 100.

CONNECTIONS: According to DIN 11850 tube.

TC - Sanitary clamps DIN 32676. ETO – Extended tube orbital welding.

TC / ETO - Combination.

PACKAGING: Assembling and packaging in a clean room

certified according to ISO 14644-1.

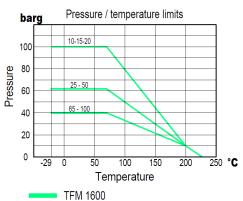
The product is end capped and sealed with recyclable thermo-shrinkable plastic film, to

avoid contamination.

INSTALLATION: See IMI -Installation and maintenance

instructions.





Note: Working pressure may be limited by the valve connections.

(PED – European Directive)					
PN40	Category				
DN 65 to DN 100	1 (CE marked)				

CE MARKING CROUP A





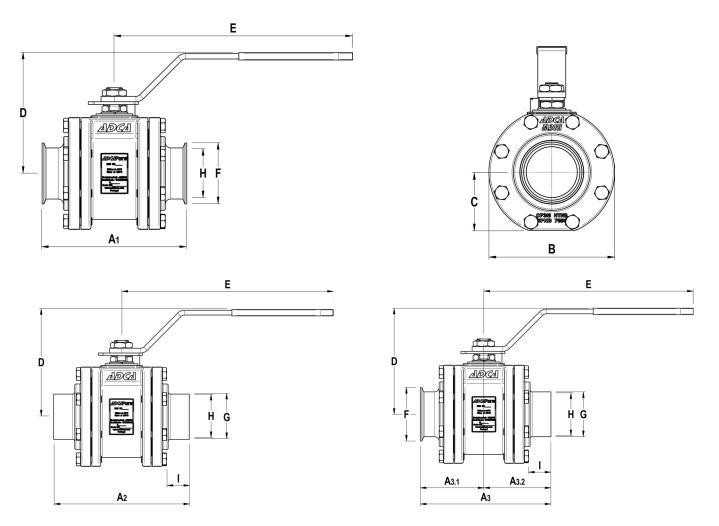




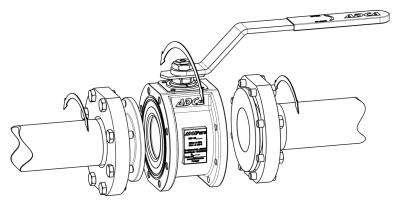




DIMENSIONS (mm) DIN																
SIZE	A1	A2	А3	A3.1	A3.2	В	С	D	E	F	G	Н	I	BALL PORT	ISO 5211	WGT. (kg)
65	190	203	197	95	98,5	160	72,5	169	400	91	70	66	37	62	F7	13,3
80	216	228	222	108	111	180	83,5	180	400	106	85	81	38	75	F7	18,6
100	255	267	261	127,5	133,5	220	101,5	198	400	119	104	100	44	98	F10	29,6



Tube weld easy and quick installation - standard



Loose body flanges make it possible to install the valve without aligning of the welded end connections. After installation the valve can rotate on 360° for the desired orientation.











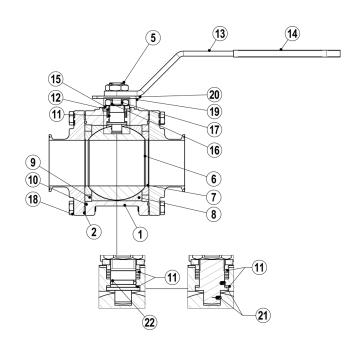


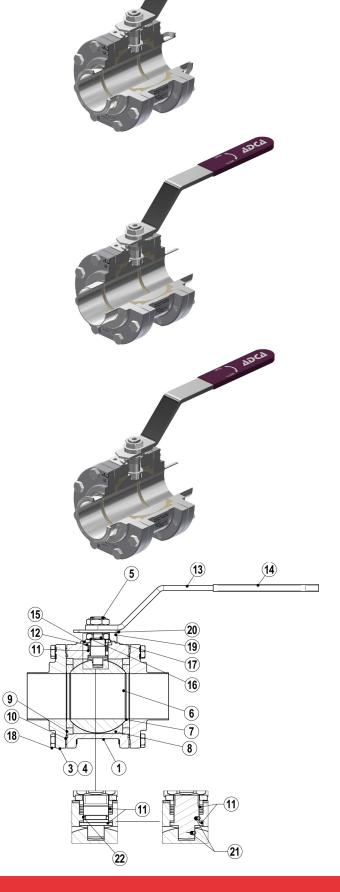
	MATERI	ALS
POS.	DESIGNATION	MATERIAL
1	Valve body	CF3M / 1.4409
2	TC end connection	CF3M / 1.4409
3	Tube weld end connection	AISI 316L / 1.4404
4	** Flange	AISI 316L / 1.4404
5	Stem	AISI 316L / 1.4404
6	* Valve ball	AISI 316L / 1.4404
7	* Standard seat	TFM 1600
8	* Cavity filler seat	TFM 1600
9	Body ring	AISI 316L / 1.4404
10	* Body seal	PTFE
11	* Stem seals	TFM 1600
12	* Spacer	AISI 316 / 1.4401
13	Handle	AISI 304 / 1.4301
14	Handle sleeve	Vinyl
15	* Spring washers	AISI 304 / 1.4301
16	Compression nut	AISI 304 / 1.4301
17	* Lock washer	AISI 304 / 1.4301
18	Fixing bolt	AISI 304 / 1.4301
19	Stop pin	AISI 304 / 1.4301
20	Handle stopper	AISI 304 / 1.4301
21	Antistatic device	AISI 316 / 1.4401
22	O-ring	Viton

<sup>\*</sup> Available spare parts;

Remarks: FDA / USP Class VI seals certificate on request.

All valves have a serial number. In case of non-standard valves, this number must be supplied if spare parts are ordered.









 $<sup>^{\</sup>star\star}$  Loose flange. Allows a 360° rotation of the valve when using tube weld connections.





ORD	ERING	CODES	6 МЗН								
Valve model	МН	Х	Х	Х	F	Х	Х	CD	Х	65	Е
M3H 3 pieces ball valve CF3M	МН										
Lever handle											
Flat lever handle stainless steel / plastic cover		Х									
Flat lever handle stainless steel / plastic cover w/ lockable system	1	3									
Bare stem		9									
Material											
CF3M / 1.4409			Х								
Seat design											
Standard seats				X							
Cavity fillers				F							
Seat material				-							
TFM 1600					F						
Surface finish (a)											
Standard surface finish						Х					
Electropolished internal wetted parts (SF5)											
Special features											
None				-			X				
Oxygen cleaning				-			0				
End connectio	ns										
TC – Sanitary clamps DIN 32676											
ETO – Extended tube orbital welding DIN 11850 (360° rotation design)											
TC / ETO – Combination DIN (360° rotation design)											
Ball po	ort										
Full bore (standard)									X		
True bore									NA		
8	Size										
DN 65	,									65	
DN 80										80	
DN 100										100	
Special	valves	/ Extra	s								
Full description or additional codes have to be added in case of a	non sta	andard o	combina	ation							E

<sup>(</sup>a) Consult IS PV20.00 (Technical information) for further details and other surface finish options.

NA – Not available.



