







## HYGIENIC BALL VALVES M3H TRUE BORE (21/2" – 4" ASME BPE)

## 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

True 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: 21/2" to 4".

CONNECTIONS: According to ASME BPE.

TC – Sanitary clamps.

ETO – Extended tube orbital welding.

TC / ETO – Combination.

PACKAGING: Assembling and packaging in a clean room

certified according to ISO 14644-1.

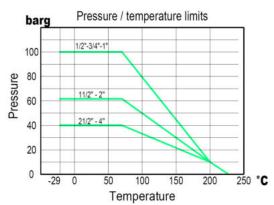
The product is end capped and sealed with recyclable thermo-shrinkable plastic film, to

avoid contamination.

INSTALLATION: See IMI - Installation and maintenance

instructions.





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

TFM 1600

(PED – European Directive)						
PN40	Category					
21/2" to 4"	1 (CE marked)					

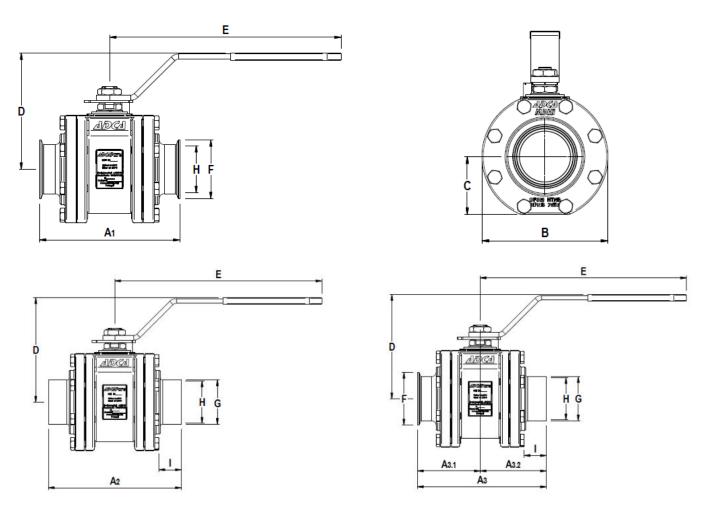
CE MARKING CROUP A



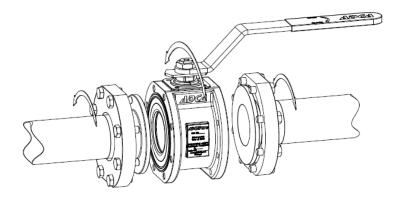




DIMENSIONS (mm) ASME BPE																
SIZE	A1	A2	А3	A3.1	A3.2	В	С	D	Е	F	G	Н	I	BALL PORT	ISO 5211	WGT. (kg)
21/2"	190	203	196,3	95	101,5	160	72,5	169	400	77,5	63,5	60,2	37	60,2	F7	13,3
3"	216	228	222	108	111	180	83,5	180	400	91	76,2	72,9	38	72,9	F7	18,6
4"	254	267	260,5	127	133,5	220	101,5	198	400	119	101,6	97,4	44	97,4	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.





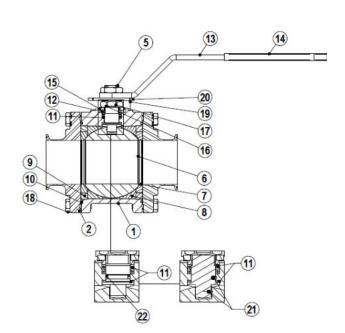


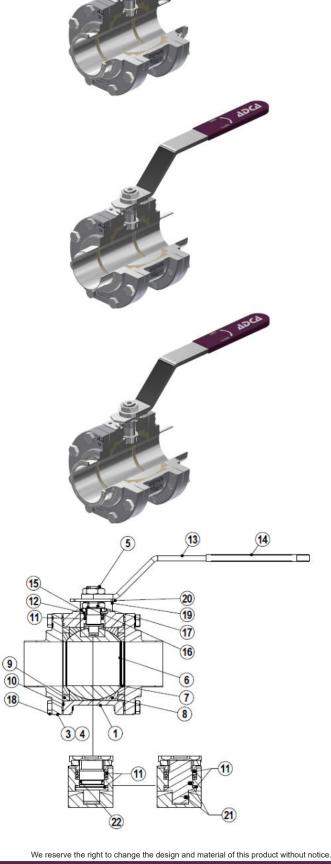
MATERIALS						
POS.	DESIGNATION	MATERIAL				
1	Valve body	CF3M / 1.4409				
2	TC end connection	CF3M / 1.4409				
3	Tube weld end connection	AISI 316L / 1.4404				
4	** Flange	AISI 316L / 1.4404				
5	Stem	AISI 316L / 1.4404				
6	* Valve ball	AISI 316L / 1.4404				
7	* Standard seat	TFM 1600				
8	* 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 end	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> Loose flange. Allows a 360° rotation of the valve when using tube weld connections.





ORD	ERING	CODES	S М3Н								
Valve model	МН	Х	Х	Х	F	Х	Х	СВ	Х	65	
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	n	3									
Bare stem		9									
Material											
CF3M / 1.4409			X								
Seat design											
Standard seats				Х							
Cavity fillers				F							
Seat material						-					
TFM 1600					F	-					
Surface finish (a)							_				
Standard surface finish						X	_				
Electropolished internal wetted parts (SF5)						E	-				
Special features											
None Overson electrics							X O	_			
Oxygen cleaning  End connectic	ne.						0				
								СВ			
TC – Sanitary clamps ASME BPE  ETO – Extended tube orbital welding ASME BPE (360° rotation design)											
TC / ETO – Combination ASME BPE (360° rotation design)								ТВ			
Ball p	ort							0.5			
True bore (standard)									Х		
Full bore									NA		
	Size										
21/2"										65	
3"										80	
4"										100	
Specia	l valves	/ Extra	s								
Full description or additional codes have to be added in case of a	a non sta	ındard d	combina	ation							E

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

NA – Not available.