



### HYGIENIC BALL VALVES M3H TRUE BORE (1/2" – 2" ASME BPE)

### DESCRIPTION

M3H three pieces 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. Bidirectional.

Anti blow out proof stem.

ISO 5211 mounting.

STANDARD SURFACE FINISH Internal wetted parts:  $\leq 0,51$  micron Ra – SF1. External : as casted. Ultrasonic cleaning.

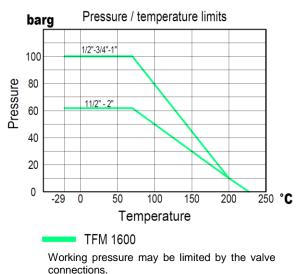
OPTIONS:	Antistatic device. Different sealing materials. Degreased for oxygen use. Tube weld with loose body flanges
	(360º rotation after installation). Cavity filler.
USE:	Clean steam, gases and liquids compatible with the construction.
AVAILABLE	
MODELS:	M3H – Investment casting.
SIZES:	1/2" to 2".
CONNECTIONS:	According to ASME BPE. TC – Sanitary clamps.
	ETO – Extended tube orbital welding. TC / ETO – Combination.
PACKAGING:	Assembling and packaging in a clean room

PACKAGING:Assembling and packaging in a clean room<br/>certified according to ISO 14644-1.<br/>The product is end capped and sealed with<br/>recyclable thermo-shrinkable plastic film to<br/>avoid contamination.INSTALLATION:See IMI, installation and maintenance<br/>instructions.

CE MARKING (PED – European Directive)							
PN100	PN64	Category					
1/2" to 1"	_	SEP					
_	11/2" to 2"	1 (CE marked)					







We reserve the right to change the design and material of this product without notice.

## VALSTEAM JJCA



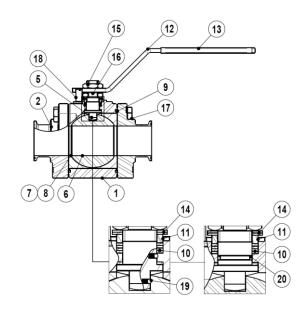
	MATERIALS									
POS. №	DESIGNATION	MATERIAL								
1	Valve body	CF3M / 1.4409								
2	TC end connection	CF3M / 1.4409								
3	Tube weld end connection	CF3M / 1.4409 (integral)								
3	Tube weld end connection	AISI 316L / 1.4404 (360º rotation)								
4	*** Flange	CF3M / 1.4409								
5	Stem	AISI 316L / 1.4404								
6	* Valve ball	AISI 316L / 1.4404								
7	* Standard seat	TFM 1600								
8	* Cavity filler seat	TFM 1600								
9	Body seal	PTFE								
10	* Stem seals	TFM 1600								
11	* Spacer	AISI 316 / 1.4401								
12	Handle	AISI 304 / 1.4301								
13	Handle end	Vinyl								
14	* Spring washers	AISI 304 / 1.4301								
15	Compression nut	AISI 304 / 1.4301								
16	* Lock washer	AISI 304 / 1.4301								
17	Fixing bolt	AISI 304 / 1.4301								
18	Stop pin	AISI 304 / 1.4301								
19	** Antistatic device	AISI 316 / 1.4401								
20	O-ring	Viton								

\* Available spare parts; \*\* On request.

\*\*\* Loose flange only applied on the  $360^{\circ}$  rotation optional version.

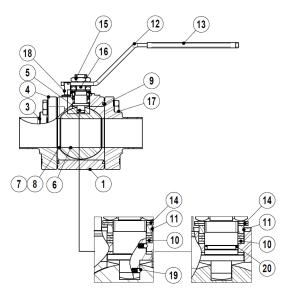
FDA / USP Class VI seals certificate on request.

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









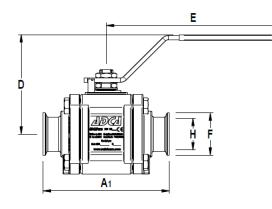
# VALSTEAM ДДСД



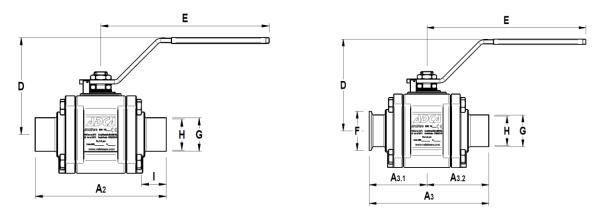


DIMENSIONS (mm) ASME BPE																
SIZE	<b>A</b> 1	<b>A</b> 2	Аз	<b>A</b> 3.1	<b>A</b> 3.2	в	с	D	Е	ØF	ØG	ØН	I	BALL PORT	ISO 5211	WGT. (kg)
1/2"	88,9	101,6	95,5	44	51,5	42	21	65	150	25	12,7	9,4	25	9,4	F03	0,42
3/4"	101,6	114,3	108	51	57	50	25	69	150	25	19,05	15,75	27	15,8	F03	0,99
1"	114,3	127	120,5	57	63,5	62	31	87	175	50,5	25,4	22,1	27	22,1	F04	2,1
11/2"	139,7	152,4	146,5	70	76,5	85	42,5	114	207	50,5	38,1	34,8	27	34,8	F05	4,3
2"	165,1	177,8	171,5	82,5	89	105	52,5	124	232	64	50,8	47,5	28	47,5	F05	7,3

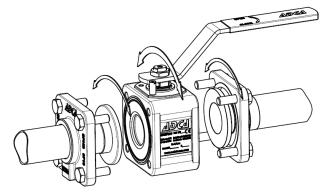
\* Flange adapter is required, against extra price. See IS M3H.25 E Options and extras.







## Tube weld easy and quick installation - optional



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







#### **ORDERING CODES M3H**

		-			-	1		r		1			
Valve model	МН				F	F			СВ	•		15	
M3H 3 pieces ball valve CF3M	МН												
Lever handle													
Flat lever handle stainless steel / plastic cover			(*)										
Flat lever handle stainless steel / plastic cover w/ lockable system			3										
Bare stem			9										
Material													
CF3M / 1.4409				(*)									
Seat design													
Standard seats					(*)								
Cavity fillers					F								
Seat material													
TFM 1600						F							
Surface finish, special services and opti	ons												
Standard surface finish (mechanical polishing)							(*)						
Electropolishing							1						
Oxygen cleaning							2						
Antistatic device													
None								(*)					
Antistatic device								Α					
End connections													
TC – Sanitary clamps ASME BPE									СВ				
ETO – Extended tube orbital welding ASME BPE (integral, no rotati		gn)							ITB				
ETO – Extended tube orbital welding ASME BPE (360° rotation des	ign)								ΤВ				
TC / ETO – Combination ASME BPE (integral, no rotation design)									СІТВ				
TC / ETO – Combination ASME BPE (360° rotation design)									СТВ				
Ball port													
True bore (standard)											(*)		
Full bore											NA		
Size													
1/2"												15	
3/4"												20	
1"												25	
11/2"												40	
2"												50	
Special valves / E													
Full description or additional codes have to be added in case of a new	on stand	dard	con	nbina	atior	۱							Ε

(\*) Ommited if a standard valve is requested. NA – Not available.