



HYGIENIC BALL VALVES M3H TRUE BORE (DN ½" – 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 3% 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: ≤ 0,51 micron Ra – SF1.

External: as casted. Ultrasonic cleaning.

OPTIONS: Antistatic device.

Different sealing materials. Degreased for oxygen use.

USE: Clean steam, gases and liquids compatible

with the construction.

AVAILABLE

MODELS: M3H – Complete bar stock construction.

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

certified according to ISO 14644-1.

The product is end capped and vacuum sealed with recyclable plastic film to avoid

contamination.

INSTALLATION: See IMI, installation and maintenance

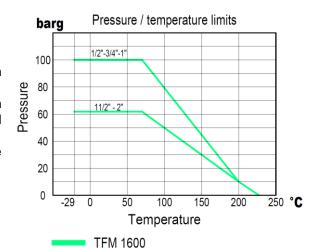
instructions.

CEMARKI	NG - GROUP 2 (F	PED - European Directive)
PN 100	PN 64	Category
1/2" to 1"	/	SEP
/	11/2" -2"	1 (CE Marked)









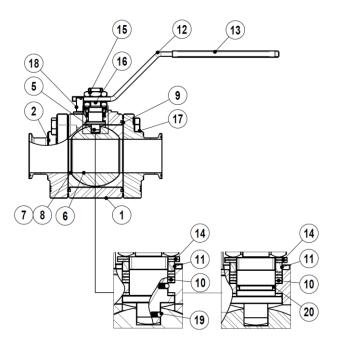
Working pressure may be limited by the valve connections.

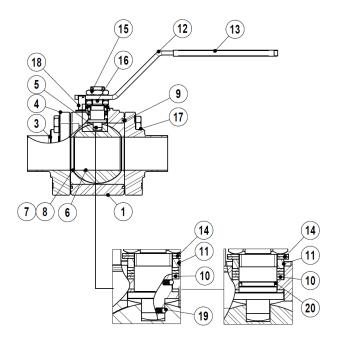


We reserve the right to change the design and material of this product without notice.









	MAT	ERIALS							
POS.	DESIGNATION	MATERIAL							
1	Valve body	CF3M / 1.4409							
2	TC end connection	CF3M / 1.4409							
3	Tube weld end conn.	CF3M / 1.4409 (Integral)							
3	Tube w eld end conn.	AISI316L / 1.4404 (360º rotation)							
4	*** Flange	CF3M / 1.4409							
5	Stem	AISI316L / 1.4404							
6	* Valve ball	AISI316L / 1.4404							
7	* Standard seat	TFM 1600							
8	* Cavity filler seat	TFM 1600							
9	Body seal	PTFE							
10	* Stem seals	TFM 1600							
11	* Spacer	AISI316 / 1.4401							
12	Handle	AISI304 / 1.4301							
13	Handle sleeve	Vinyl							
14	* Spring washers	AISI304 / 1.4301							
15	Compression nut	AISI304 / 1.4301							
16	* Lock w asher	AISI304 / 1.4301							
17	Fixing bolt	AISI304 / 1.4301							
18	Stop pin	AISI304 / 1.4301							
19	** Antistatic device	AISI316 / 1.4401							
20	* O-ring	VITON							

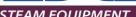
^{*} Available spare parts. ** On request

^{***} Loose flange only applied on the 360° rotation version optional 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.

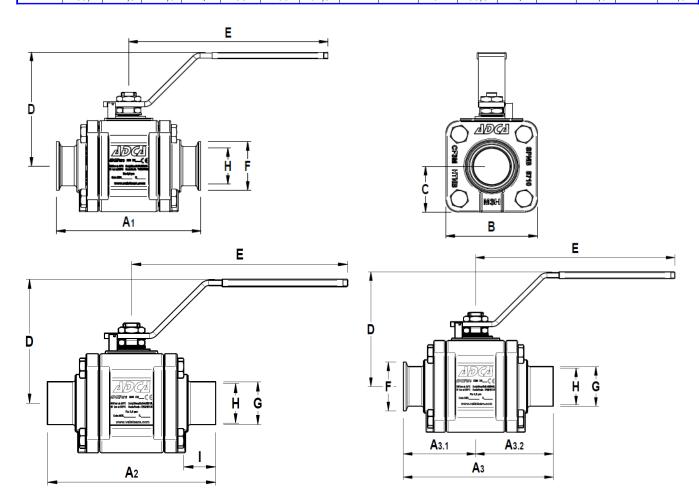




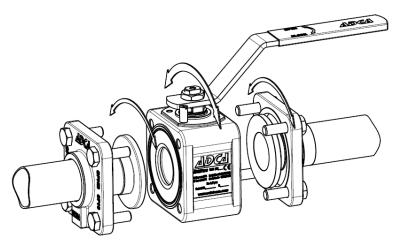




DIMENSIONS (mm)																
SIZE	A 1	A 2	A 3	A 3.1	A 3.2	В	С	D	E	ØF	ØG	ØН	I	BALL PORT	ISO 5211	WGT. Kgs
1/2"	88,9	101,6	95,5	44	51,5	42	21	65	150	25	12,7	9,4	25	9,4	F03	0,42
3/4"	101,6	114,3	108	51	57	50	25	69	150	25	19,05	15,75	27	15,8	F03	0,99
1"	114,3	127	120,5	57	63,5	62	31	87	175	50,5	25,4	22,1	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



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.







ORDERII	NG CC	DE	S	M3	ВН								
Valve model	МН		I	F	F				СВ			15	Т
M3H 3 pieces ball valve CF3M	MH	$t \dot{t}$		•	•				0.5	-		١.ٽ	t
·		1 1											
Lever handle													
Flat lever handle stainless steel / plastic cover			(*)										
Flat lever handle st. steel / plastic cover w/lockable	system		3										
Material													
CF3M 1.4409				(*)									
Standard seats					/*\	ł							
Cavitty fillers					<u>(*)</u>								
Cavity fillers					F								
Seat material													
TFM 1600						F							
11 10 1000						Г							
Special services / Option	one												
Standard surface finish (mechanical polishing)	UIIS						(*)						
Electropolishing							1						
Oxigen cleaning							2						
Antistatic device													
None								(*)					
Antistatic device								$\stackrel{\smile}{A}$					
End connection	ns												
TC - Sanitary clamps ASME BPE									СВ				
ETO - Extended tube orbital welding ASME BPE (inte	egral non	rotat	ion	desi	an '	١			ITB				
ETO - Extended tube orbital wielding ASME BPE (36)	0º rotatio	n)		4001	gii				TB				
TC / ETO Combination ASME BPE (360° rotation)	o rotatio	11)							СТВ				
10/ ETO COMBINATION ASIVIL BLE (300 Totation)									מוט				
Ball p	ort												1
True bore (standard)					111111	11111111	*:=[=[=[-1-1-1-1-	(*)	1	
Full bore											NA	1	1
	ve size												
1/2"												15	1
3/4"												20	1
1"										-		25	1
11/2"												40	1
2"												50	1

Special valves / Extras b)

(*) Omitted if a standard valve is requested
b)Full description or addicional codes have to be added in case of non-standard combination.

NA - Not available