



## **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. 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.

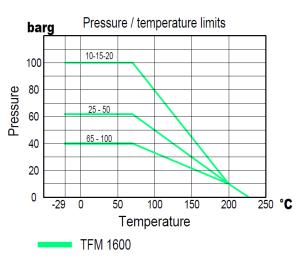
OPTIONS:	Antistatic device. Different sealing materials. Degreased for oxygen use. Tube weld with loose body flanges (360° rotation after installation). Cavity filler.								
USE:	Clean steam, gases and liquids compatible								
AVAILABLE	with the construction.								
MODELS:	M3H – Investment casting.								
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.

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







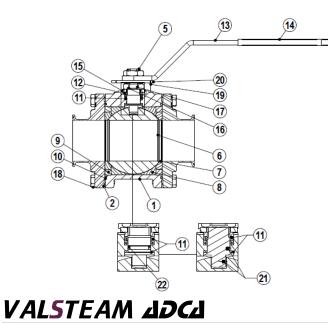
Working pressure may be limited by the valve connections.

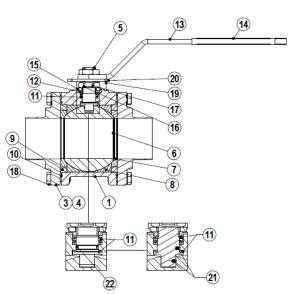
We reserve the right to change the design and material of this product without notice.



MATERIALS								
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 weld end conn.	AISI 316L / 1.4404 (360° rotation)						
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						

\* Available spare parts. \*\* On request. \*\*\* Loose flange only applied on the 360° rotation version option. 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.





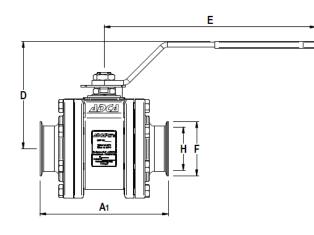


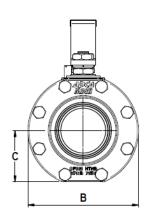


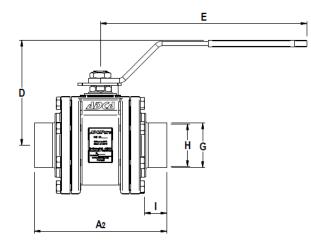


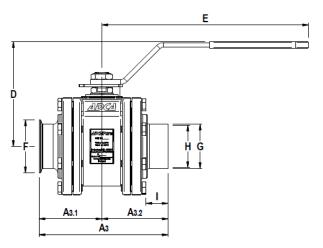


DIMENSIONS (mm) DIN																
SIZE DN	<b>A</b> 1	<b>A</b> 2	Аз	<b>A</b> 3.1	<b>A</b> 3.2	в	с	D	Е	ØF	ØG	ØН	I	BALL PORT	ISO 5211	WGT. (kg)
65	190	203	197	95	98,5	160	72,5	169	355	91	70	66	37	62	F7	13,3
80	216	228	222	108	111	180	83,5	180	355	106	85	81	38	75	F7	18,6
100	255	267	261	127,5	133,5	220	101,5	198	460	119	104	100	44	98	F10	29,6

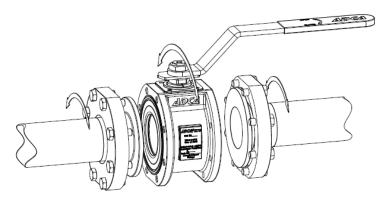








# Tube weld easy and quick installation - optional



Loose body flanges make it possible to install the valve without aligning of welded end connections. After installation the valve can rotate on  $360^{\circ}$  for the desired orientation.





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#### **ORDERING CODES M3H**

ORDERING COL	JE2 143	Π											
Valve model	MH				F	F			CD	-		65	
M3H 3 pieces ball valve CF3M	МН												
													l
Lever handle													l
Flat lever handle stainless steel / plastic cover			(*)										l
Flat lever handle stainless steel / plastic cover w/ lockable system			3										l
Bare stem			9										l
Material													ł
CF3M / 1.4409				(*)									l
Seat design													l
Standard seats				(	(*)								ł
Cavity fillers					F								ł
Seat material													l
TFM 1600						F							l
Surface finish, special services and optic	ons												l
Standard surface finish (mechanical polishing)							(*)						l
Electropolishing							1						l
Oxygen cleaning							2						l
Antistatic device													l
None								(*)					l
Antistatic device								Α					l
End connections													l
TC – Sanitary clamps DIN 32676									CD				l
ETO – Extended tube orbital welding DIN 11850 (integral, no rotation	on desig	n)							ITD				l
ETO - Extended tube orbital welding DIN 11850 (360º rotation desi	gn)								TD				ł
TC / ETO – Combination DIN (integral, no rotation design)									CITD				l
TC / ETO – Combination DIN (360° rotation design)									CTD				l
Ball port													l
Full bore (standard)											(*)		l
True bore											NA		l
Size													ł
DN 65												65	ł
DN 80												80	ł
DN 100												100	ł
Special valves / E	Extras												l
Full description or additional codes have to be added in case of a new	on stand	lard	com	binat	tion								Е
(*) Ommited if a standard value is requested													

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