LRQA CERTIFIED ISO 9001





HYGIENIC BALL VALVES M3H TRUE BORE (21/2" to 4" – DN 65 to DN 100)

DESCRIPTION

The ADCAPure 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 and food & 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 the 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

STANDARD SURFACE FINISH Internal wetted parts: ≤ 0,51 µm Ra – SF1. External: as casted.

Other surface conditions see TIS.GIA – General information ADCAPure. Ultrasonic cleaning.

OPTIONS: Different sealing materials. Degreased for oxygen use. Cavity fillers. Lever with locking system. See IS M3H.100 for more options and extras.

USE: Clean steam, gases and liquids compatible with the construction. AVAILABLE

MODELS: M3H – investment casting.

SIZES: 21/2" to 4"; DN 65 to DN 100.

- CONNECTIONS: ASME BPE or DIN clamp ferrules, tube weld (ETO) ends or a combination of both. Others on request.
- 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 – GROUP 2 (PED - European Directive)							
PN 40	Category						
21/2" to 4" – DN 65 to 100	1 (CE marked)						



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

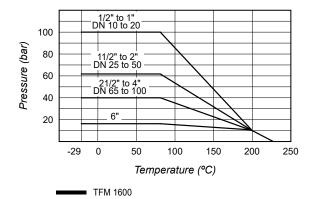


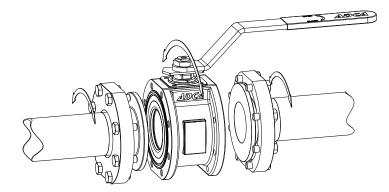






PRESSURE / TEMPERATURE LIMITS

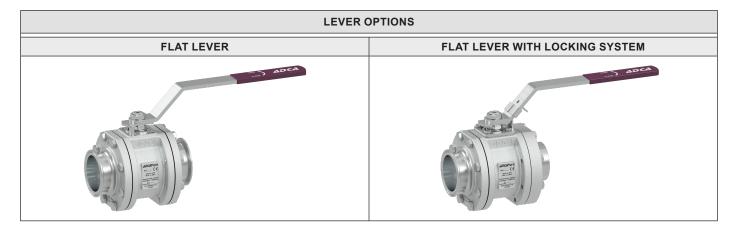




Tube weld easy and quick installation

Remark: Maximum operating conditions may be limited by the valve end connections due to normative restrictions.

Valves with tube weld (ETO) connections are fitted, as standard, with loose body flanges which allow installation with no need to align the end connections. After installation the valve can rotate freely 360° to the desired orientation.



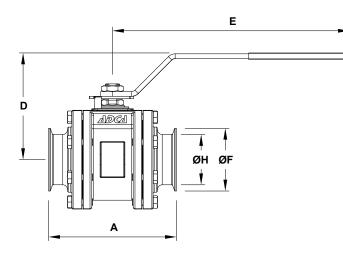
	STEM EXTENSION UNITS *	
SEF/H	SEF/P	SEF/A

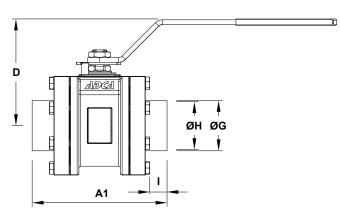
*Consult IS M3H.100 – Sanitary Ball Valves Options and Extras – for further information.

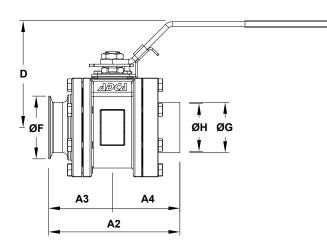
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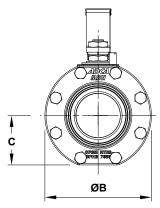












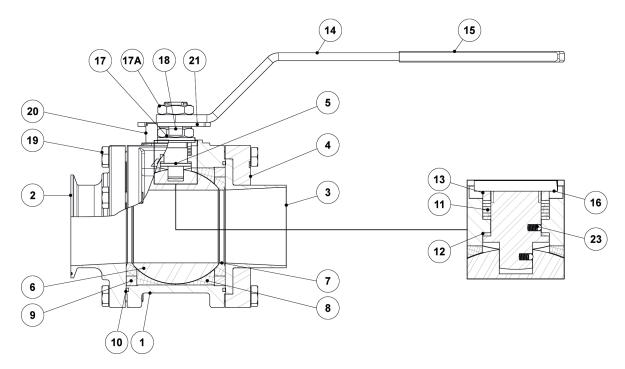
DIMENSIONS – ASME BPE (mm)																
SIZE	Α	A1	A2	A3	A4	ØB	С	D	Е	ØF	ØG	ØН	I	BALL PORT	ISO 5211	WGT. (kg)
21/2"	190	203	196,3	95	101,5	160	72,5	169	400	77,4	63,5	60,2	37	60,2	F7	13,3
3"	216	228	222	108	111	180	83,5	180	400	90,9	76,2	72,9	38	72,9	F7	18,6
4"	254	267	260,5	127	133,5	220	101,5	198	400	118,9	101,6	97,4	44	97,4	F10	29,6

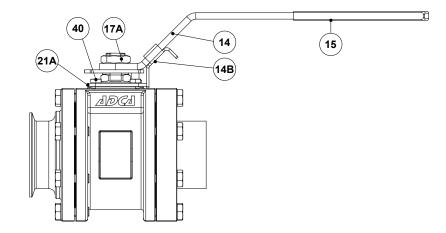
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	DIMENSIONS – DIN (mm)															
SIZE	Α	A1	A2	A3	A4	ØB	с	D	Е	ØF	ØG	ØН	I	BALL PORT	ISO 5211	WGT. (kg)
65	190	203	197	95	98,5	160	72,5	169	400	91	70	66	37	62	F7	13,3
80	216	228	222	108	111	180	83,5	180	400	106	85	81	38	75	F7	18,6
100	255	267	261	127,5	133,5	220	101,5	198	400	119	104	100	44	98	F10	29,6

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Optional flat lever with locking system

		MATE	RIALS		
POS. Nº	DESIGNATION	MATERIAL	POS. Nº	DESIGNATION	MATERIAL
1	Valve body	A351 CF3M / 1.4409	14	Handle	AISI 304 / 1.4301
2	Clamp ferrule end connection	A351 CF3M / 1.4409	14B	Locking piece	AISI 304 / 1.4301
3	Tube weld end connection	AISI 316L / 1.4404	15	Handle end	Vinyl
4	Flange	A351 CF8M / 1.4408	16	Spring washers	Stainless steel A2
5	Stem	AISI 316L / 1.4404	17	Compression nut	AISI 304 / 1.4301
6	* Valve ball	AISI 316L / 1.4404	17A	Nut	AISI 304 / 1.4301
7	* Standard seat	TFM 1600	18	Lock washer	AISI 304 / 1.4301
8	* Cavity filler seat	TFM 1600	19	Body fixing bolts	Stainless steel A2-70
9	Body ring	AISI 316L / 1.4404	20	Stop pin	AISI 304 / 1.4301
10	* Body seal	PTFE	21	Handle stopper	AISI 304 / 1.4301
11	* Stem seals	TFM 1600	21A	Locking flange	AISI 304 / 1.4301
12	* Stem thrust seal	TFM 1600	23	Antistatic device	AISI 316 / 1.4401
13	* Spacer	AISI 316 / 1.4401	40	Fixing bolts	Stainless steel A2-70

* 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.





ORDERING CODE	ES M3H										
Valve model	MH	X	X	X	F	X	X	СВ	Х	65	Е
M3H – A351 CF3M / 1.4409 3 pieces ball valve	МН										
Lever handle											
Flat lever in stainless steel with plastic cover		X									
Flat lever in stainless steel with plastic cover and locking system		3									
Bare stem		9									
Material		· · ·									
A351 CF3M / 1.4409			Х								
Seat design											
Standard seats				Х							
Cavity fillers				F							
Seat material											
TFM 1600					F	1					
Surface finish a)						1					
Standard surface finish						X	1				
Electropolished internal wetted parts (SF5)						Е	1				
Special features							1				
None							Х	1			
Degreased for oxygen							0				
Pipe connection				-				1			
Clamp ferrule ASME BPE								СВ			
Clamp ferrule DIN (DIN 32676-A)								CD			
Tube weld (ETO) according to ASME BPE								тв			
Tube weld (ETO) according to DIN 11866-A (DIN 11850-2)								TD			
TC/ETO combination ASME BPE								СТВ			
TC/ETO combination DIN 32676-A / DIN 11866-A								СТД			
Ball port											
True bore									Х		
Size											
21/2" or DN 65										65	
3" or DN 80										80	
4" or DN 100										100	
Special construction / Addit	ional optio	ns									
Full description or additional codes have to be added in case of a non standard	l combinatio	on									Е

a) Consult TIS.GIA – General information ADCAPure – for further details and other surface finish options.

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