





### HIGH PURITY BALL VALVES M3HP (21/2" to 4" – DN 65 to DN 100)

### DESCRIPTION

The ADCAPure M3HP 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/full bore floating ball design. Completely made from solid bar stock material. Can be serviced without removal from the pipeline. Bidirectional. Antistatic device. Anti blow out proof stem. Tube weld with loose body flanges (360° rotation after installation). ISO 5211 mounting.

#### STANDARD SURFACE FINISH

Internal wetted parts:  $\leq 0,51 \ \mu m \ Ra - SF1$ . External :  $\leq 0,76 \ \mu m \ Ra - SF3$ . Other surface conditions see TIS.GIA – General information ADCAPure. Ultrasonic cleaning.

OPTIONS:	Degreased for oxygen use. Cavity fillers. Lever with locking system. See IS M3H.100 for more options and extras.
USE: AVAILABLE MODELS:	Clean steam, gases and liquids compatible with the construction. M3HP – Complete bar stock construction.
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

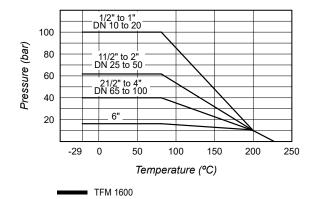


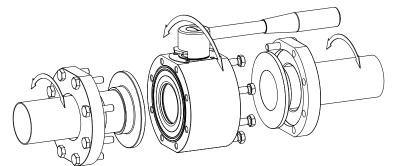






### **PRESSURE / TEMPERATURE LIMITS**



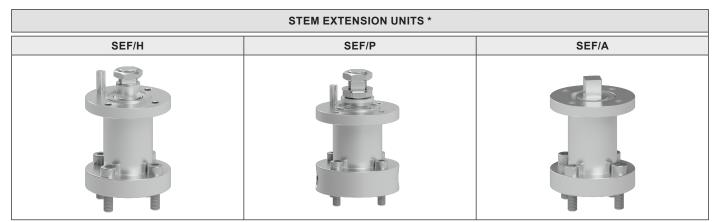


Tube weld easy and quick installation

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  $360^\circ$  to the desired orientation.



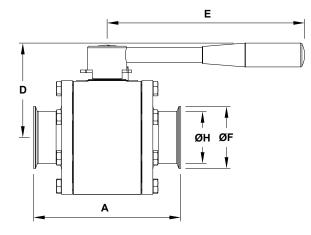


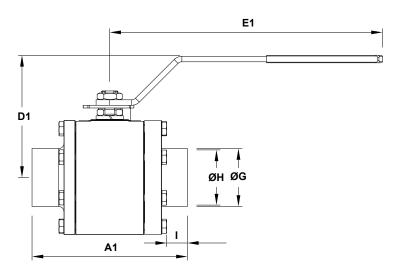
\*Consult IS M3H.100 – Sanitary Ball Valves Options and Extras – for further information.

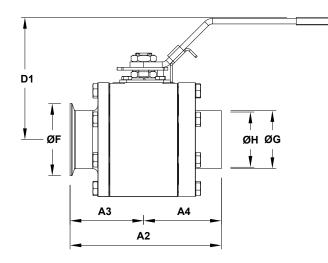
### VALSTEAM ДДСД

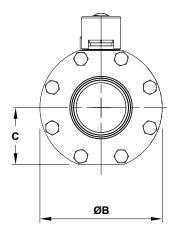












	DIMENSIONS – ASME BPE (mm)																	
SIZE	A	A1	A2	A3	A4	ØВ	с	D	D1	Е	E1	ØF	ØG	ØН	I	BALL PORT	ISO 5211	WGT. (kg)
21/2"	190	203	196,3	95	101,5	160	72,5	130	169	250	400	77,4	63,5	60,2	29	60,2	F7	15,3
3"	216	228	222	108	114	180	83,5	140	179	290	400	90,9	76,2	72,9	30	72,9	F7	22,1
4"	254	267	260,5	127	133,5	220	101,5	158	198	290	400	118,9	101,6	97,4	36	97,4	F10	39,7

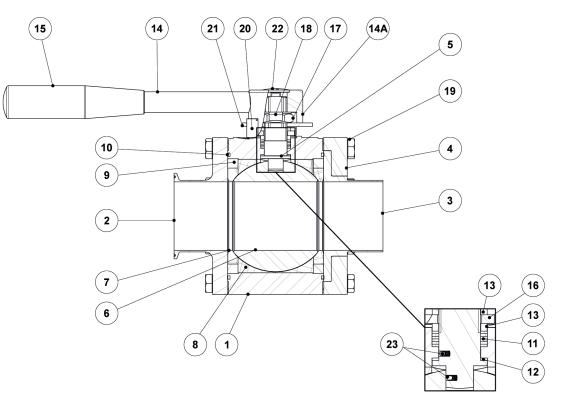
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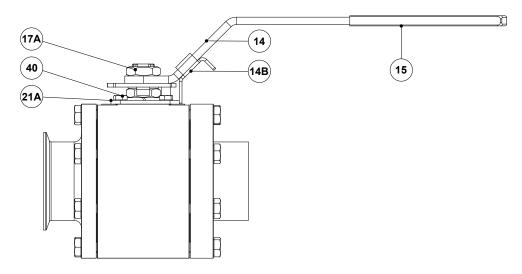
	DIMENSIONS – DIN (mm)																	
SIZE	А	A1	A2	A3	A4	ØВ	с	D	D1	Е	E1	ØF	ØG	ØН	I	BALL PORT	ISO 5211	WGT. (kg)
DN 65	190	203	197	95	102	160	72,5	130	169	250	400	91	70	66	29	62	F7	15,4
DN 80	216	228	222	108	114	180	83,5	140	179	290	400	106	85	81	30	75	F7	22,1
DN 100	255	267	261,5	127,5	134	220	101,5	158	198	290	400	119	104	100	36	98	F10	36,4

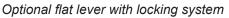
# VALSTEAM ADCA



#### MATERIALS







### VALSTEAM ADCA



	MATERIAI	_S
POS. Nº	DESIGNATION	MATERIAL
1	Valve body	AISI 316L / 1.4404
2	Clamp ferrule end connection	AISI 316L / 1.4404
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	* Stem thrust seal	TFM 1600
13	* Spacer	AISI 316L / 1.4404
14	Handle	AISI 304 / 1.4301
14A	Handle body	AISI 304 / 1.4301
14B	Locking piece	AISI 304 / 1.4301
15	Handle end	Vinyl; AISI 304 / 1.4301
16	Spring washer	Stainless steel A2
17	Compression nut	AISI 304 / 1.4301
17A	Nut	AISI 304 / 1.4301
18	Lock washer	AISI 304 / 1.4301
19	Body fixing bolt	Stainless steel A2-70
20	Stop pin	AISI 304 / 1.4301
21	Handle stopper	AISI 304 / 1.4301
21A	Locking flange	AISI 304 / 1.4301
22	Handle fixing bolt	AISI 304 / 1.4301
23	Antistatic device	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 CO	DES M3HP									
Valve model	MHP	X	X	Х	F	X	X	CD	Х	100
M3HP 3 pieces ball valve - AISI 316L	MHP									
Lever handle										
Round lever in stainless steel with plastic end		X								
Round lever with complete stainless steel construction		1								
Flat lever in stainless steel with plastic cover		2	1							
Flat lever in stainless steel with plastic cover and locking system		3	1							
Bare stem		9	1							
Material										
AISI 316L / 1.4404			X							
Seat design										
Standard seats				Х	]					
Cavity fillers				F						
Seat material										
TFM 1600					F					
Surface finish a)										
Standard surface finish						X	]			
Mirror mechanical polished external surfaces (SF1)						Р				
Electropolished internal wetted parts (SF5)						E	]			
Special features										
None							X			
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 (ASME BPE) and full bore (DIN)									Х	]
Size										]
21/2" or DN 65										65
3" or DN 80										80
4" or DN 100										100
Special construction / Ac	ditional optio	ns								
Full description or additional codes have to be added in case of a non stand	dard combination	on								

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

## VALSTEAM ADCA