



### HIGH PURITY BALL VALVES M3HP TRUE BORE (DN 10 – 50 DIN)

### DESCRIPTION

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, food and beverage industries.

#### MAIN FEATURES

True bore floating ball design. Completely made from solid bar stock material. Can be serviced without removal from pipeline. Bidirectional. Anti blow out proof stem. Tube weld with loose body flanges. (360° rotation after installation). ISO 5211 mounting (only sizes ≥ DN 20).

STANDARD SURFACE FINISH Internal wetted parts:  $\leq 0,51$  micron Ra – SF1. External :  $\leq 0,76$  micron Ra – SF3. Other surface conditions see IS PV20.00 E – Technical information. Ultrasonic cleaning.

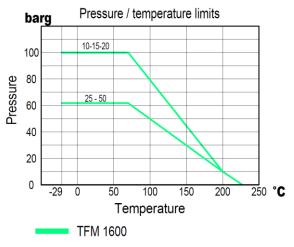
OPTIONS:	Antistatic device. Different sealing materials. DN 10 and DN 15 ISO mounting with adapter. Degreased for oxygen use.									
USE:	Cavity filler. Clean steam, gases and liquids compatible with the construction.									
AVAILABLE										
MODELS:	M3HP – Complete bar stock construction.									
SIZES:	DN 10 to DN 50.									
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 roon 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)									
PN100	PN64	Category							
DN 10 to 20	-	SEP							
-	DN 25 to 32	SEP							
_	DN 40 to 50	1 (CE Marked)							









Working pressure may be limited by the valve connections.

## VALSTEAM ككوك

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



MATERIALS									
POS. №	DESIGNATION	MATERIAL							
1	Valve body	AISI 316L / 1.4404							
2	TC 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 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	Handle stopper	AISI 304 / 1.4301							
20	Washer	AISI 304 / 1.4301							
21	Fixing screw	AISI 304 / 1.4301							
22	** Antistatic device	AISI 316 / 1.4401							
23	O-ring	Viton							

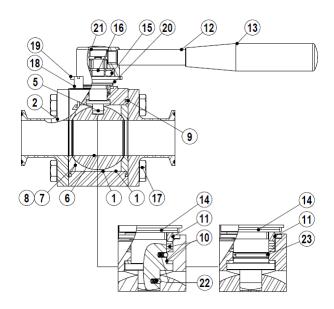


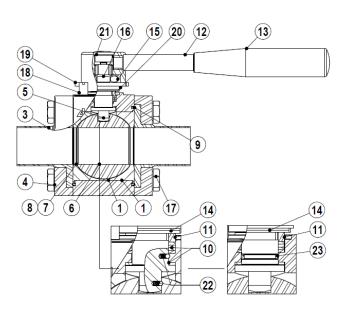


\* Available spare parts; \*\* On request.

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.





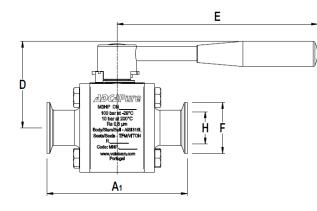
# VALSTEAM JDCJ

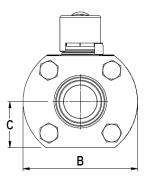


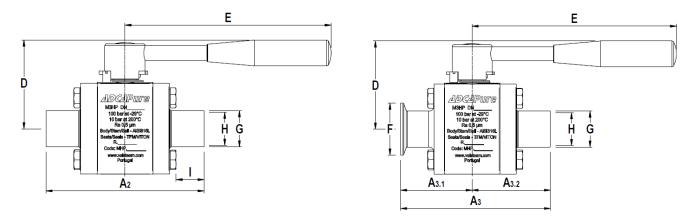


	DIMENSIONS (mm) DIN															
SIZE DN	<b>A</b> 1	<b>A</b> 2	Аз	<b>A</b> 3.1	<b>A</b> 3.2	в	с	D	E	ØF	ØG	ØН	I	BALL PORT	ISO 5211	WGT. (kg)
10	90	102	96	45	51	59	22	48	130	34	13	10	25	10	F03 *	0,8
15	100	114	107	50	57	64	24,5	53	130	34	19	16	27	16	F03 *	1,1
20	115	127	121,5	57,5	64	79	31	68	165	34	23	20	27	20	F04	2,2
25	125	135	130,5	62,5	68	89	36	73	165	50,5	29	26	27	26	F04	2,9
32	140	153	147	71	76	109	44	86	200	50,5	35	32	27	32	F05	5,1
40	150	161	155	75	80	119	48	90	200	50,5	41	38	27	38	F05	6,3
50	165	178	172	82	90	134	53	97	200	64	53	50	28	50	F05	8,4
25 32 40	125 140 150	135 153 161	130,5 147 155 172	62,5 71 75	68 76 80	89 109 119 134	36 44 48	73 86 90 97	165 200 200	50,5 50,5 50,5	29 35 41	26 32 38	27 27 27 27	26 32 38	F04 F05 F05	

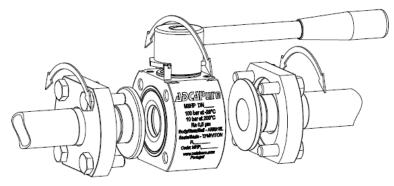
\* Flange adapter is required, against extra price. See IS M3H.25 E Options and extras.







## Tube weld easy and quick installation - standard

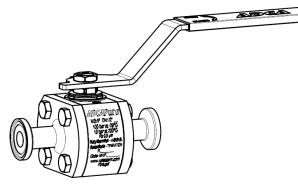


Loose body flanges make it possible to install the valve without aligning of welded end connections. After installation the valve can rotate on 360° for the desired orientation.

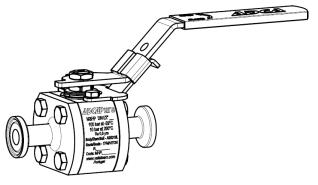








Flat lever handle with plastic cover.



Flat lever handle with lockable system.

ORDERING CODES M3HP													
Valve model	MHP				F	F			CD			15	
M3HP 3 pieces ball valve AISI 316L	MHP												
Lever handle													
Round lever handle stainless steel / plastic cover			(*)										
Round lever handle complete stainless steel			1										
Flat lever handle stainless steel / plastic cover			2										
Flat lever handle stainless steel / plastic cover w/ lockable system			3										
Bare stem			9										
Material													
AISI 316L / 1.4404				(*)									
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 DIN 32676									CD				
ETO – Extended tube orbital welding DIN 11850 (360° rotation)									TD				
TC / ETO – Combination DIN (360° rotation)									CTD				
Ball port													
True bore (standard)											(*)		
Full bore											NA		
Size													
DN 10												10	
DN 15												15	
DN 20												20	
DN 25												25	
DN 32												32	I
DN 40												40	
DN 50												50	
Special valves / E													
Full description or additional codes have to be added in case of a n	on stand	lard	com	bina	atior	۱							Е

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