



### HIGH PURITY BALL VALVES **M3HP FULL BORE** (DN 65 - 100 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

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

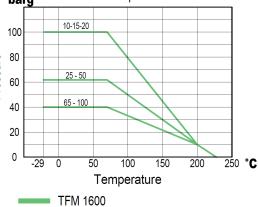
### STANDARD SURFACE FINISH

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

OPTIONS:	Different sealing materials. Degreased for oxygen use. Cavity filler.
USE:	Clean steam, gases and liquids compatible with the construction.
AVAILABLE MODELS:	M3HP – Complete bar stock construction.
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.





Note: Working pressure may be limited by the valve connections.

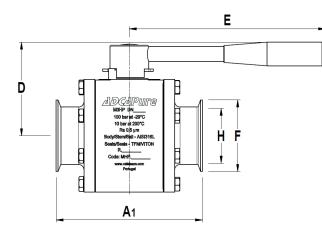
CE MARKING – GROUP 2 (PED – European Directive)								
PN40	Category							
DN 65 to DN 100	1 (CE marked)							

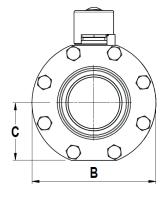
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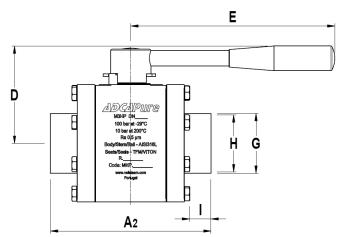
We reserve the right to change the design and material of this product without notice.

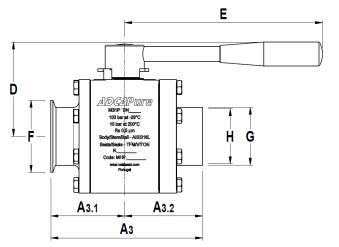






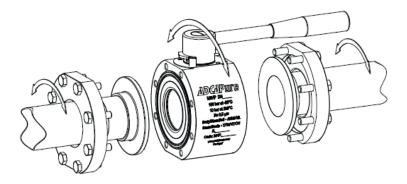






				•			DIMENS	SIONS (n	nm) DIN			•				
SIZE	A1	A2	A3	A3.1	A3.2	в	с	D	E	F	G	н	I	BALL PORT	ISO 5211	WGT. (kg)
65	190	203	197	95	102	160	72,5	130	250	91	70	66	29	62	F7	15,4
80	216	228	222	108	114	180	83,5	140	290	106	85	81	30	75	F7	22,1
100	255	267	261,5	127,5	134	220	101,5	158	290	119	104	100	36	98	F10	36,4

### Tube weld easy and quick installation - standard



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

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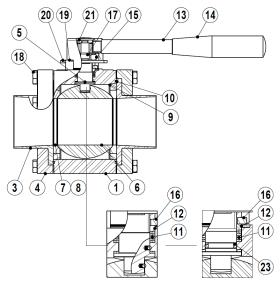


	MATERI	ALS
POS. Nº	DESIGNATION	MATERIAL
1	Valve body	AISI 316L / 1.4404
2	TC end connection	AISI 316L / 1.4404
3	Tube weld end conn.	AISI 316L / 1.4404
4	Flange	AISI 316L / 1.4404
5	Stem	AISI 316L / 1.4404
6	* Valve ball	AISI 316L / 1.4404
7	* Standard seat	TFM 1600
8	* Cavity filler seat	TFM 1600
9	Body ring	AISI 316L / 1.4404
10	* Body seal	PTFE
11	* Stem seals	TFM 1600
12	* Spacer	AISI 316 / 1.4401
13	Handle	AISI 304 / 1.4301
14	Handle end	Vinyl
14	Handle end (optional)	AISI 316L / 1.4404
15	Compression nut	AISI 304 / 1.4301
16	* Spring washers	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	Fixing screw	AISI 304 / 1.4301
22	Antistatic device	AISI 316 / 1.4401
23	O-ring	Viton





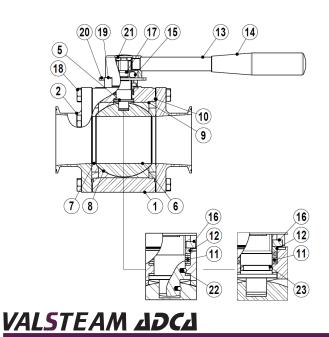




\* Available spare parts;

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.







ORDE	RING COD	ES M3H	IP								
Valve model	MHP	X	X	X	F	Х	Х	CD	X	65	
M3HP 3 pieces ball valve - AISI 316L	MHP										
Lever handle											
Round lever handle stainless steel / plastic cover		X	1								
Round lever handle complete stainless steel		1	1								
Flat lever handle stainless steel / plastic cover		2	1								
Flat lever handle stainless steel / plastic cover w/ lockable 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						Х					
Mirror mechanical polished external surfaces (SF1)						Р					
Electropolished internal wetted parts (SF5)						Е					
Special features						-					
None							Х				
Oxygen cleaning							0				
End connection	ns										
TC – Sanitary clamps DIN 32676								CD			
ETO – Extended tube orbital welding DIN 11850 (360° rotation)							TD				
TC / ETO – Combination DIN (360° rotation)								СТD			
Ball p	ort										
Full bore (standard)									X		
True bore									NA		
5	Size										
DN 65										65	
DN 80										80	
DN 100										100	
	valves / Ex										L
Full description or additional codes have to be added in case of a	non standa	rd comb	pinatior	۱							

a) Consult IS PV20.00 (Technical information) for further details and other surface finish options.

NA - Not available.

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