







HIGH PURITY BALL VALVES M3HP TRUE BORE (21/2" – 4" ASME BPE)

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.

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: ≤ 0,51 micron Ra – SF1.

External : ≤ 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: 21/2" to 4".

CONNECTIONS: According to ASME BPE.

TC - Sanitary clamps.

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.

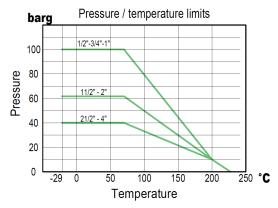
INSTALLATION: See IMI - Installation and maintenance

instructions.









TFM 1600

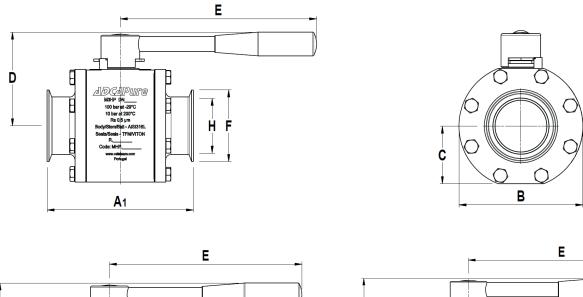
Note: Working pressure may be limited by the valve connections.

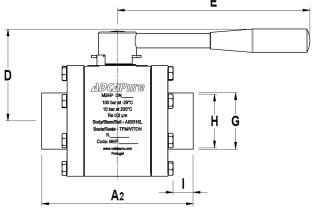
CE MARKING – GROUP 2 (PED – European Directive)							
PN40	Category						
21/2" to 4"	1 (CE marked)						

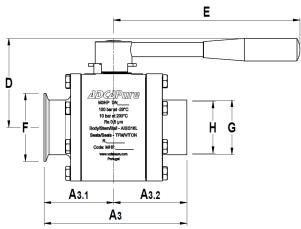






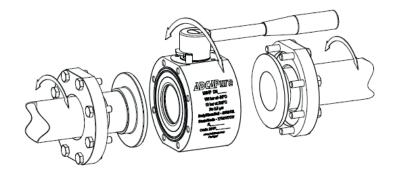






DIMENSIONS (mm) ASME BPE																
SIZE	A1	A2	А3	A3.1	A3.2	В	С	D	Е	F	G	Н	I	BALL PORT	ISO 5211	WGT. (kg)
21/2"	190	203	196,3	95	101,5	160	72,5	130	250	77,5	63,5	60,2	29	60,2	F7	15,3
3"	216	228	222	108	114	180	83,5	140	290	91	76,2	72,9	30	72,9	F7	22,1
4"	254	267	260,5	127	133,5	220	101,5	158	290	119	101,6	97,4	36	97,4	F10	39,7

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.





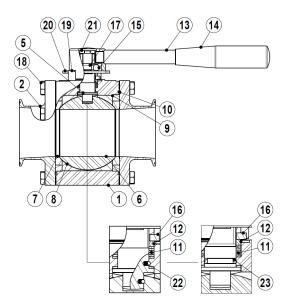
MATERIALS								
POS.	DESIGNATION	MATERIAL						
1	Valve body	AISI 316L / 1.4404						
2	TC end connection	AISI 316L / 1.4404						
3	Tube weld end connection	AISI 316L / 1.4404						
4	Flange	AISI 316L / 1.4404						
5	Stem	AISI 316L / 1.4404						
6	* Valve ball	AISI 316L / 1.4404						
7	* Standard seat	TFM 1600						
8	* Cavity filler seat	TFM 1600						
9	Body 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						

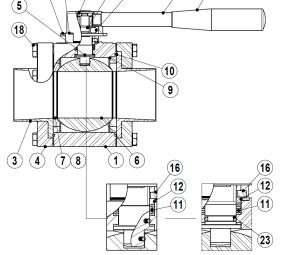


Remarks: FDA / USP Class VI seals certificate on request.

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 M3F	IP								
Valve model	МНР	Х	Х	Х	F	Х	Х	СВ	Х	65	
M3HP 3 pieces ball valve - AISI 316L	МНР										
Lever handle											
Round lever handle stainless steel / plastic cover		Х									
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	1	3									
Bare stem		9									
Material											
AISI 316L / 1.4404			Х								
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											
Oxygen cleaning							0				
Pipe connectio	ns										
TC – Sanitary clamps ASME BPE								СВ			
ETO – Extended tube orbital welding ASME BPE (360° rotation design)								ТВ			
TC / ETO – Combination ASME BPE (360° rotation design)								СТВ			
Ball p	ort										
True bore (standard)									Х		
Full bore									NA		
	Size										
21/2"										65	
3"										80	
4"										100	
•	valves / Ex										_
Full description or additional codes have to be added in case of a	non standa	rd comb	inatior	ı							E

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

NA – Not available.