





HIGH PURITY BALL VALVES M3HP TRUE BORE (DN ½" – 2" ASME BPE)

DESCRIPTION

M3HP three pieces body ball valves are isolating valves designed for use on 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 be used only as an isolating valve, fully open or fully closed.

The product was mainly designed for the pharmaceutical, biotech, semiconductor, cosmetics, fine chemical, food and beverage industries.



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

STANDARD SURFACE FINISH Internal wetted parts: ≤ 0,5 micron Ra

External : ≤ 0,8 micron Ra

(0,25 micron Ra and electro polished as option)

Ultrasonic cleaning

OPTIONS: Antistatic device

Different sealing materials ISO 5211 mounting Degreased for oxygen use

USE: Clean steam, gases and liquids compatible

with the construction.

AVAILABLE

MODELS: M3HP - Complete bar stock construction

SIZES: DN1/2" to DN 2"

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 vacuum sealed with recyclable plastic film to avoid

contamination.

INSTALLATION: See IMI, installation and maintenance

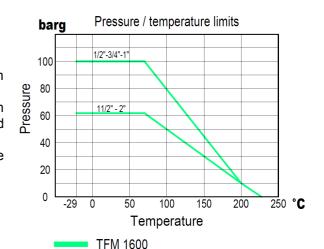
instructions.

CEMARK	ING (PED - Euro	pean Directive 97/23/EC)
PN 100	Category	
DN 1/2" to 1"	1	S⊞ - art. 3, paragraph3
I	DN 11/2" -2"	1 (CE Marked)









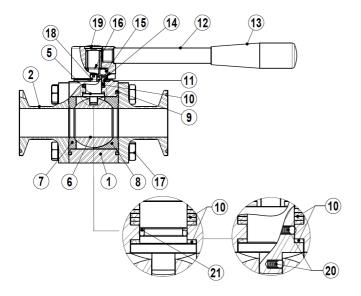
Working pressure may be limited by the valve connections.

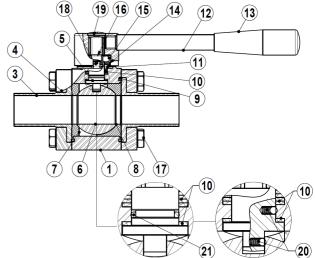


We reserve the right to change the design and material of this product without notice.





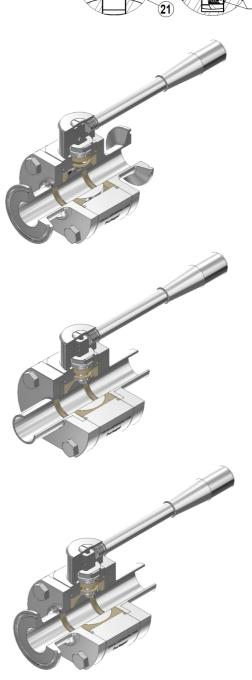




	MATERIA	ALS
POS.	DESIGNATION	MATERIAL
1	Valve body	AISI316L / 1.4404
2	TC end connection	AISI316L / 1.4404
3	Tube weld end conn.	AISI316L / 1.4404
4	Flange	AISI316L / 1.4404
5	Stem	AISI316L / 1.4404
6	* Valve ball	AISI316L / 1.4404
7	* Standard seat	TFM 1600
8	* Cavity filler seat	TFM 1600
9	* Body seal	PTFE
10	* Stem seals	TFM 1600
11	* Spacer	AISI316 / 1.4401
12	Lever	AISI304 / 1.4301
13	Lever end	AISI304 / 1.4301
14	* Spring washers	AISI304 / 1.4301
15	Compression nut	AISI304 / 1.4301
16	* Lock washers	AISI304 / 1.4301
17	Fixing bolt	AISI304 / 1.4301
18	Stop pin	AISI304 / 1.4301
19	Fixing screw	AISI304 / 1.4301
20	Antistatic device	AISI316 / 1.4401
21	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.



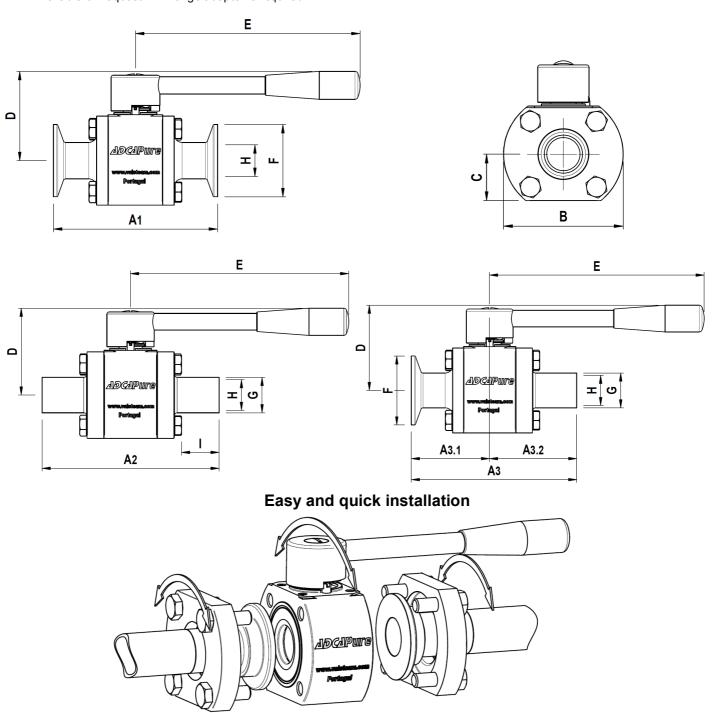




STEAM EOUIPMENT

							DIME	NSIONS	(mm)							
SIZE DN	A 1	A 2	A 3	A 3.1	A 3.2	В	С	D	E	F	G	Н	I	BALL PORT	ISO 5211 *	WGT. Kgs
1/2"	88,9	101,6	95,5	44	51,5	59	22	44	110	25	12,7	9,4	25	9,4	F03**	0,9
3/4"	101,6	114,3	108	51	57	64	24,5	48	110	25	19,05	15,75	27	15,8	F03**	1,4
1"	114,3	127	120,5	57	63,5	79	31	62	155	50,5	25,4	22,1	27	22,1	F04	2,3
11/2"	139,7	152,4	146,5	70	76,5	109	44	78	185	50,5	38,1	34,8	27	34,8	F05	5,3
2"	165,1	177,8	171,5	82,5	89	134	53	89	185	64	50,8	47,5	28	47,5	F05	8,5

^{*} Available on request. ** Flange adapter is required.



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.





ORDERING CO	DES N	//3H	ΗP					
Valve model	MHP	Ι.	F	F		СВ	15	Π
M3HP 3 pieces ball valve AISI 316L	MHP			_				
		Ī						
]						
Seat design			(4)					
Standard seats Cavitty fillers			(1) F					
Cavilly fillers			F					
Seat material								
TFM 1600				F				
Special services / Options								
None					(1)			
Electropolishing					1			
Oxigen cleaning					2			
End connections TC - Sanitary clamps ASME BPE						СВ		
ETO - Extended tube orbital w elding ASME BPE						TB		
TC / ETO Combination ASME BPE						СТВ		
107 ETO COMBINACION TOWNEDIE						015		
Valve size								
DN 1/2"							15	
DN 3/4"							20	l
DN 1"							25	ĺ
DN 11/2"							40	
DN 2"							50	L
Special valves / E	xtras b)							E

(1) Omitted if a standard valve is requested

b)Full description or addictional codes have to be added in case of non-standard combination.