





HIGH PURITY BALL VALVES M3HP TRUE BORE (1/2" – 2" 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.

Anti blow out proof stem.

Tube weld with loose body flanges. (360° rotation after installation). ISO 5211 mounting (only sizes ≥1"). 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: Antistatic device.

Different sealing materials.

1/2" and 3/4" ISO mounting with flange adapter.

Degreased for oxygen use.

Cavity filler.

USE: Clean steam, gases and liquids compatible

with the construction.

AVAILABLE

MODELS: M3HP – Complete bar stock construction.

SIZES: 1/2" to 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 sealed with recyclable thermo-shrinkable plastic film, to

avoid contamination.

INSTALLATION: See IMI, installation and maintenance

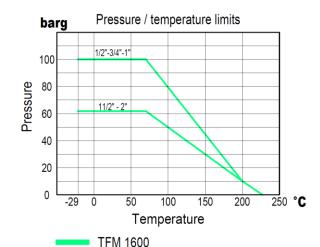
instructions.

CE MARKING (PED – European Directive)							
PN100	PN100 PN63 Category						
1/2" to 1"	-	SEP					
_	11/2" to 2"	1 (CE marked)					







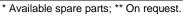


Working pressure may be limited by the valve connections.





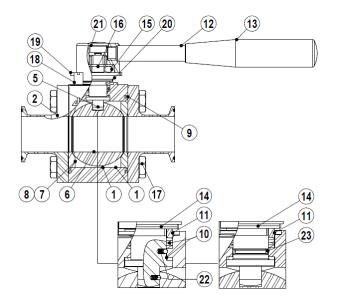
	MAT	ERIALS
POS.	DESIGNATION	MATERIAL
1	Valve body	AISI 316L / 1.4404
2	TC end connection	AISI 316L / 1.4404
3	Tube weld end connection	AISI 316L / 1.4404
4	Flange	AISI 316L / 1.4404
5	Stem	AISI 316L / 1.4404
6	* Valve ball	AISI 316L / 1.4404
7	* Standard seat	TFM 1600
8	* Cavity filler seat	TFM 1600
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
13	Handle end (optional)	AISI 316L / 1.4404
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

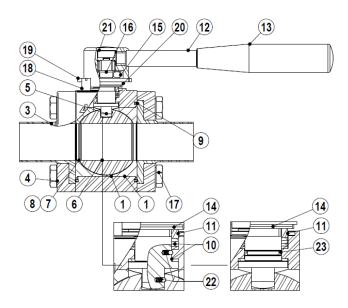


FDA / USP Class VI seals certificate on request.

All valves have a serial number. In case of non standard valves this number must be supplied if spare parts are ordered.





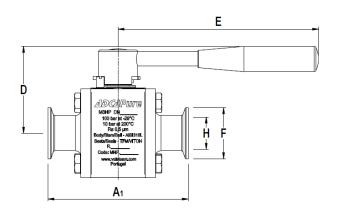


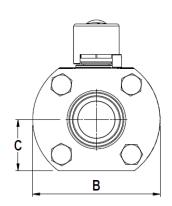


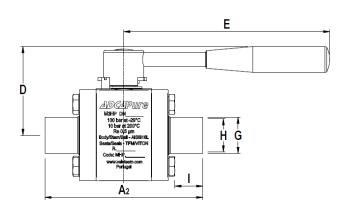


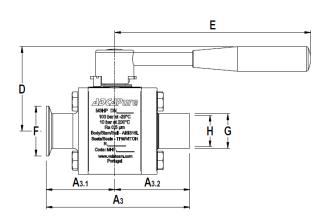
DIMENSIONS (mm) ASME BPE																
SIZE	A 1	A 2	Аз	A 3.1	A 3.2	В	С	D	E	ØF	ØG	ØН	I	BALL PORT	ISO 5211	WGT. (kg)
1/2"	88,9	101,6	95,5	44	51,5	59	22	49	130	25	12,7	9,4	25	9,4	F03 *	0,9
3/4"	101,6	114,3	108	51	57	64	24,5	53	130	25	19,05	15,75	27	15,8	F03 *	1,4
1"	114,3	127	120,5	57	63,5	79	31	68	165	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	86	200	50,5	38,1	34,8	27	34,8	F05	5,3
2"	165,1	177,8	171,5	82,5	89	134	53	97	200	64	50,8	47,5	28	47,5	F05	8,5

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

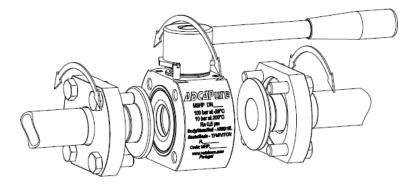








Tube weld easy and quick installation - standard

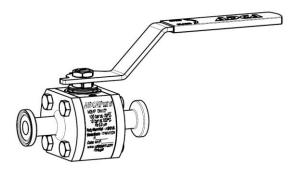


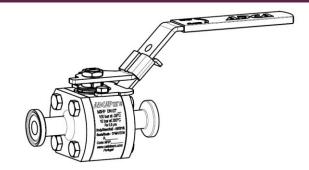
Loose body flanges make it possible to install the valve without the aligning of welded end connections. After installation the valve can rotate on 360° for the desired orientation.











Flat lever handle with plastic cover.

Flat lever handle with lockable system.

ORDERING CODE	ES M3H	Р									
Valve model	МНР				F	F			СВ		15
M3HP 3 pieces ball valve AISI 316L	MHP	-			-	-			-		
·											
Lever handle	1										
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	ions										
Standard surface finish (mechanical polishing)							(*)				
Electropolishing							1				
Oxygen cleaning							2				
Antistatic device											
None								(*)			
Antistatic device								Α			
End connections											
TC – Sanitary clamps ASME BPE									СВ		
ETO – Extended tube orbital welding ASME BPE									TB		
TC / ETO – Combination ASME BPE (360° rotation)									СТВ		
Ball port											
True bore (standard)										(*)	
Full bore										NA	
Size											
1/2"											15
3/4"											20
1"											25
11/2"											40
2"											50
Special valves / E											
Full description or additional codes have to be added in case of a n	on stand	dard	coml	oina	tion						

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