





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.



Full 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.

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. 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

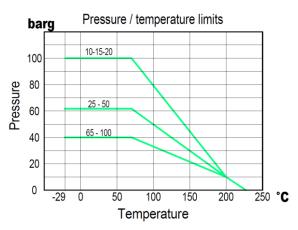
instructions.

CE MARKING (PED – European Directive)							
PN40	Category						
DN 65 to DN 100	1 (CE Marked)						









TFM 1600

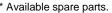
Working pressure may be limited by the valve connections.





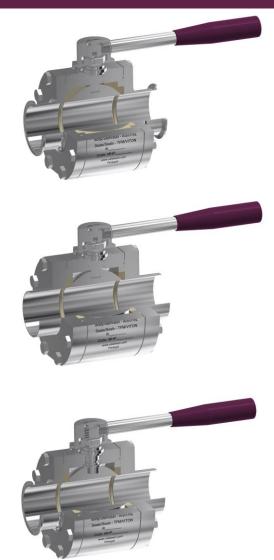


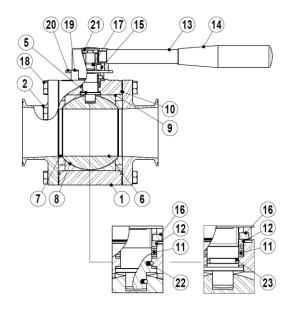
MATERIALS								
POS.	DESIGNATION	MATERIAL						
1	Valve body	AISI 316L / 1.4404						
2	TC end connection	AISI 316L / 1.4404						
3	Tube weld end conn.	AISI 316L / 1.4404						
4	Flange	AISI 316L / 1.4404						
5	Stem	AISI 316L / 1.4404						
6	* Valve ball	AISI 316L / 1.4404						
7	* Standard seat	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						

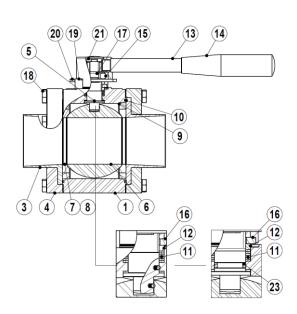


* Available spare parts.
Remarks: FDA / USP class VI seals certificate on request.

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



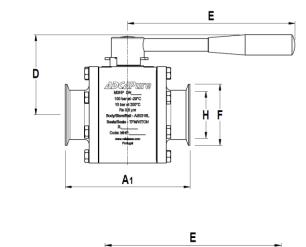


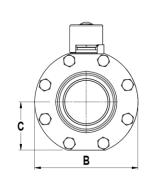


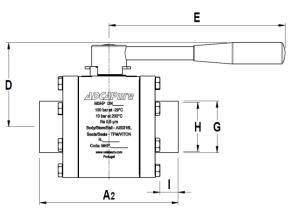


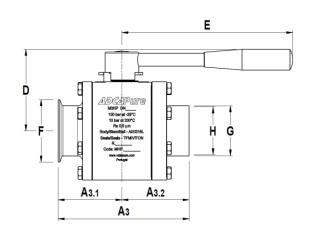


DIMENSIONS (mm) DIN																
SIZE DN	A 1	A 2	Аз	A 3.1	A 3.2	В	С	D	E	ØF	ØG	ØН	I	BALL PORT	ISO 5211	WGT. (kg)
65	190	203	197	95	102	160	72,5	130	250	91	70	66	29	62	F7	15,4
80	216	228	222	108	114	180	83,5	140	290	106	85	81	30	75	F7	22,1
100	255	267	261,5	127,5	134	220	101,5	158	290	119	104	100	36	98	F10	36,4

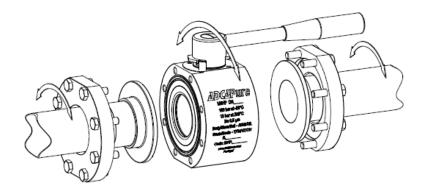








Tube weld easy and quick installation - standard



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







ORDERING CODES M3HP													
Valve model	MHP		1		F	F			CD			65	
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													
Full bore (standard)											(*)		
True bore											NA		
Size													
DN 65												65	
DN 80												80	
DN 100												100	
Special valves / Extras													
Full description or additional codes have to be added in case of a non standard combination												Е	

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