







HIGH PURITY BALL VALVES M3HP TRUE BORE (DN 10 – 50 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

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 (only sizes ≥ DN 20).

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.

DN 10 and DN 15 ISO mounting with 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: DN 10 to DN 50.

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.

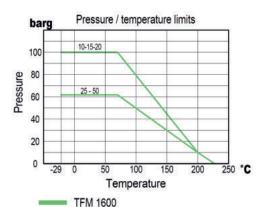
INSTALLATION: See IMI - Installation and maintenance

instructions.









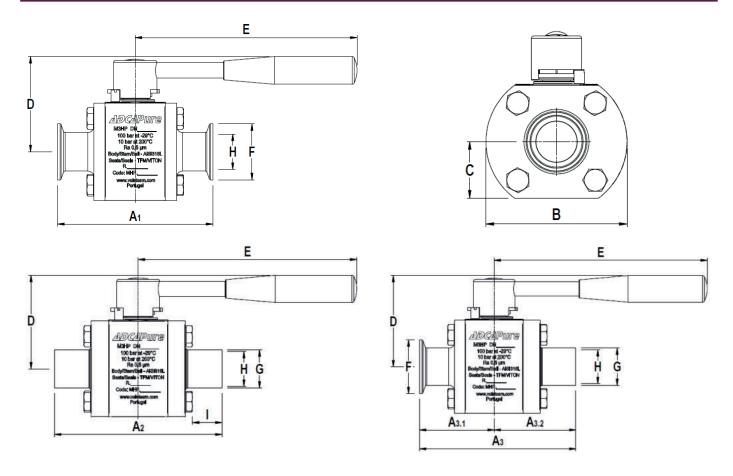
Note: Working pressure may be limited by the valve connections.

CE MARKING – GROUP 2 (PED – European Directive)									
PN63	PN100	Category							
_	DN 10 to 20	SEP							
DN 25 to 32	_	SEP							
DN 40 to 50		1 (CE Marked)							





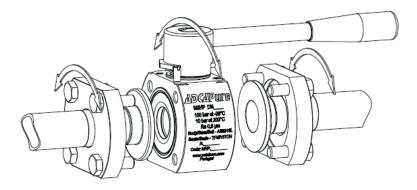




DIMENSIONS (mm) DIN																
SIZE	A1	A2	А3	A3.1	A3.2	В	С	D	Е	F	G	Н	I	BALL PORT	ISO 5211	WGT. (kg)
DN 10	90	102	96	45	51	59	22	48	130	34	13	10	25	10	F03 *	0,8
DN 15	100	114	107	50	57	64	24,5	53	130	34	19	16	27	16	F03 *	1,1
DN 20	115	127	121,5	57,5	64	79	31	68	165	34	23	20	27	20	F04	2,2
DN 25	125	135	130,5	62,5	68	89	36	73	165	50,5	29	26	27	26	F04	2,9
DN 32	140	153	147	71	76	109	44	86	200	50,5	35	32	27	32	F05	5,1
DN 40	150	161	155	75	80	119	48	90	200	50,5	41	38	27	38	F05	6,3
DN 50	165	178	172	82	90	134	53	97	200	64	53	50	28	50	F05	8,4

^{*} 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 the welded end connections. After installation the valve can rotate 360° for the desired orientation.





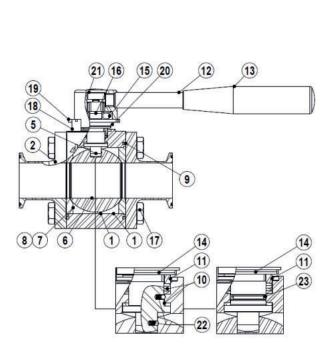


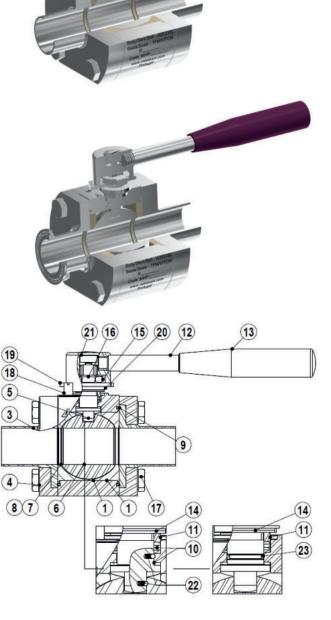
MATERIALS								
POS.	DESIGNATION	MATERIAL						
1	Valve body	AISI 316L / 1.4404						
2	TC end connection	AISI 316L / 1.4404						
3	Tube weld end connection	AISI 316L / 1.4404						
4	Flange	AISI 316L / 1.4404						
5	Stem	AISI 316L / 1.4404						
6	* Valve ball	AISI 316L / 1.4404						
7	* Standard seat	TFM 1600						
8	* Cavity filler seat	TFM 1600						
9	* Body seal	PTFE						
10	* Stem seals	TFM 1600						
11	* Spacer	AISI 316 / 1.4401						
12	Handle	AISI 304 / 1.4301						
13	Handle end	Vinyl						
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						

^{*} 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.

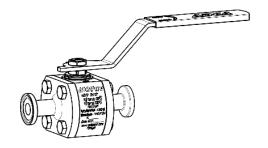


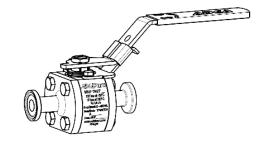












Flat lever handle with plastic cover.

Flat lever handle with plastic cover and lockable system.

ORDEF	RING COD	ES M3	HP							
Valve model	MHP	Х	Х	Х	F	Х	Х	CD	Х	15
M3HP 3 pieces ball valve - AISI 316L	MHP									
Lever handle		1								
Round lever handle stainless steel / plastic cover		Х	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		1	1							
AISI 316L / 1.4404			Х	1						
Seat design				1						
Standard seats				Х	1					
Cavity fillers				F	1					
Seat material					1					
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						,	1			
None							Х			
Oxygen cleaning							0			
End connection	s									
TC – Sanitary clamps DIN 32676								CD	1	
ETO – Extended tube orbital welding DIN 11850 (360° rotation)								TD	1	
TC / ETO – Combination DIN (360° rotation)								CTD	1	
Ball po	ort									
True bore (standard)									Х	
Full bore									NA	
S	ize								,	
DN 10										10
DN 15										15
DN 20										20
DN 25										25
DN 32										32
DN 40								40		
DN 50										50
Special v	valves / Ex	tras								
Full description or additional codes have to be added in case of a r	non standa	rd com	binatio	n						

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

NA – Not available.

