

HYGIENIC BALL VALVES M3H FULL BORE (6" ASME BPE)

DESCRIPTION

M3H 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

Full bore floating ball design.

A351 CF3M body and ends with ferrite content of less than 2% and low sulphur between 0,005 and 0,017%.

Can be serviced without removal from pipeline.

Tube weld with loose body flanges (360° rotation after installation).

Bidirectional.

Antistatic device.

Anti blow out proof stem.

ISO 5211 mounting.

STANDARD SURFACE FINISH

Internal wetted parts: ≤ 0,51 micron Ra – SF1.

External: as casted.

Ultrasonic cleaning.

OPTIONS: Different sealing materials.
Degreased for oxygen use.
Cavity filler.

USE: Clean steam, gases and liquids compatible with the construction.

AVAILABLE MODELS: M3H – Investment casting.

SIZES: 6".

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.

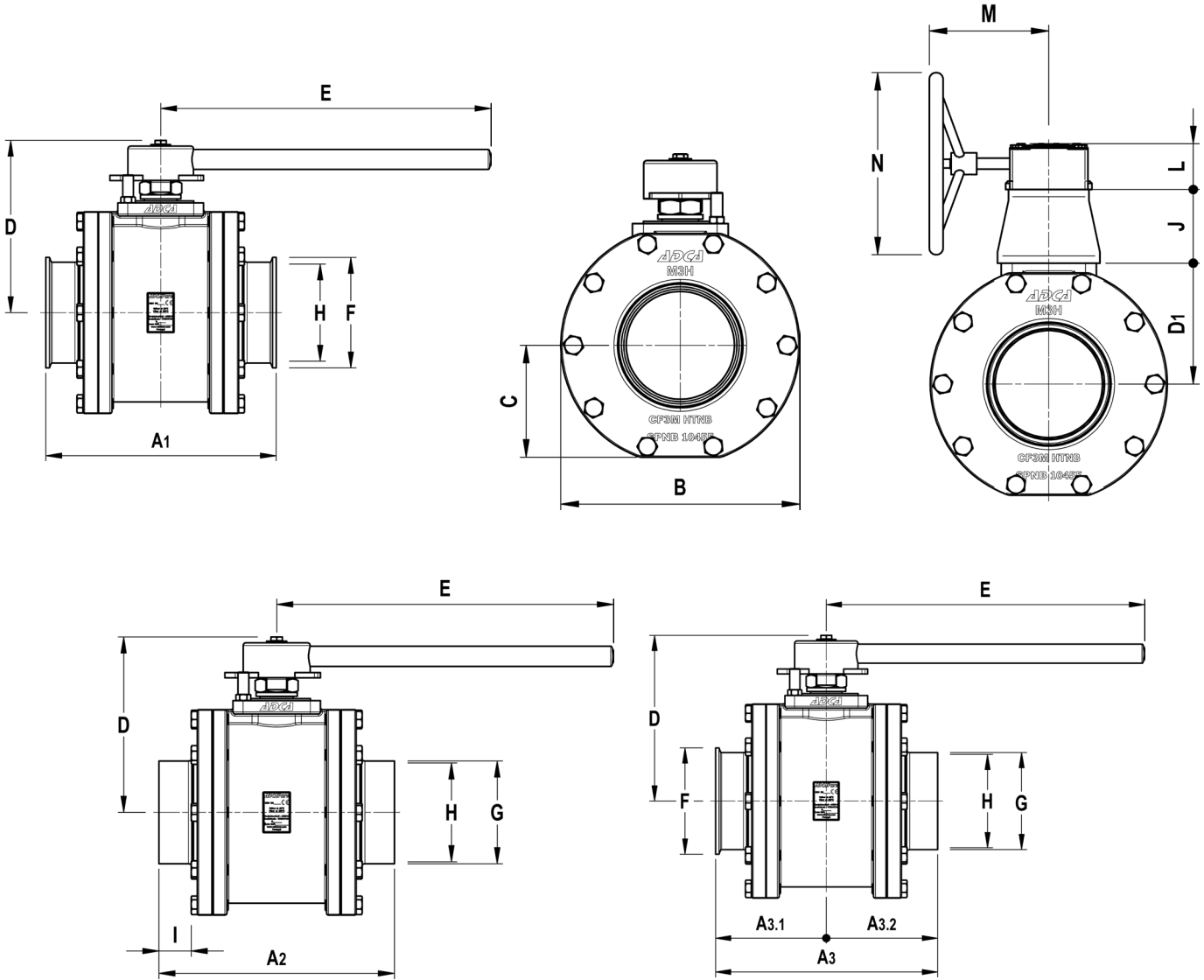


**CE MARKING – GROUP 2
(PED – European Directive)**

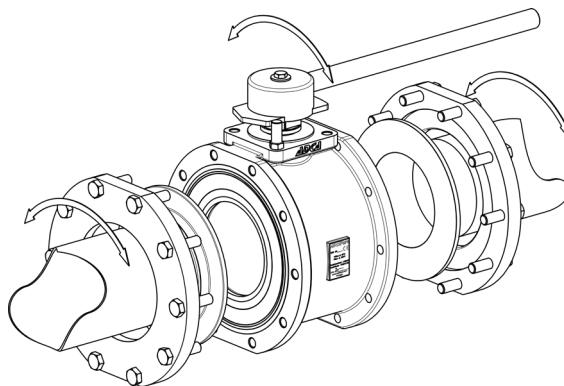
PN16	Category
DN 150	1 (CE marked)

DIMENSIONS (mm) ASME BPE

SIZE	A1	A2	A3	A3.1	A3.2	B	C	D	D1	E	F	G	H	I	J	L	M	N	BALL PORT	ISO 5211	WGT. (kg)
6"	350	350	350	175	175	324	153	260	166	500	167	152	147	48	101	63	164	250	152,4	F14	94,9



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.

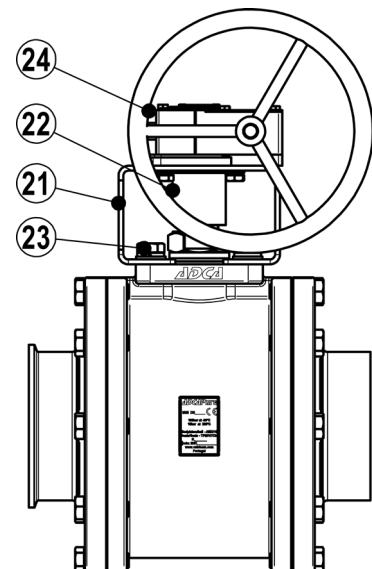
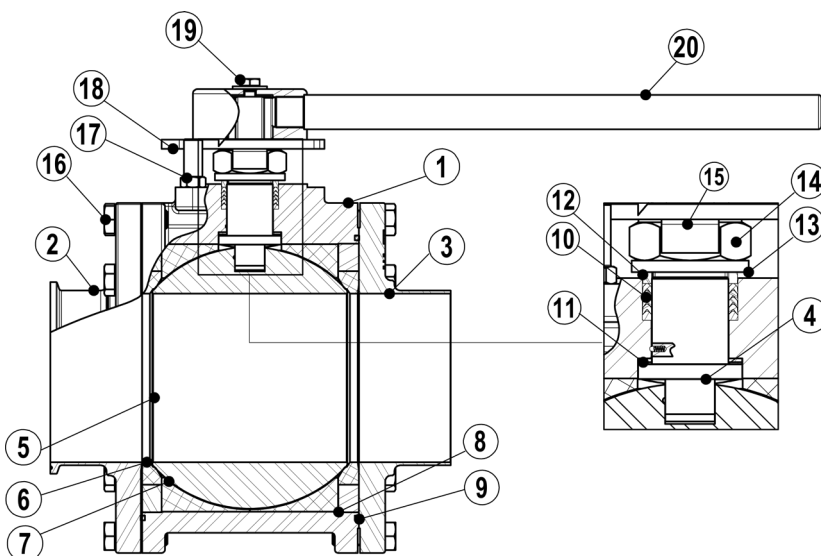
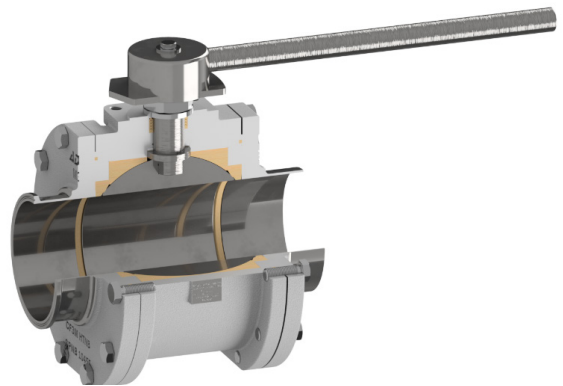
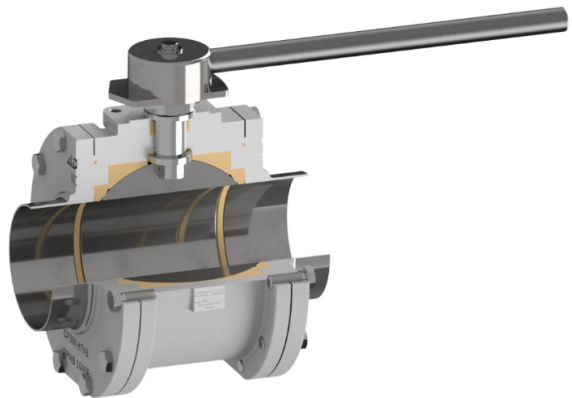
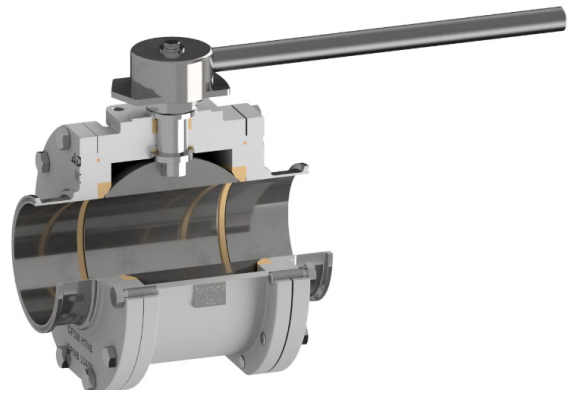
MATERIALS

POS. N°	DESIGNATION	MATERIAL
1	Valve body	CF3M / 1.4409
2	TC end connection	CF3M / 1.4409
3	Tube weld end connection	CF3M / 1.4409
4	Stem	AISI 316L / 1.4404
5	* Valve ball	AISI 316L / 1.4404
6	* Standard seat	TFM 1600
7	* Cavity filler seat	TFM 1600
8	Body ring	AISI 316L / 1.4404
9	* Body seal	PTFE
10	* Stem seals	TFM 1600
11	* Stem thrust seal	TFM 1600 - PEEK
12	* Spacer	AISI 316 / 1.4401
13	Spring washer	AISI 304 / 1.4301
14	Compression nut	AISI 304 / 1.4301
15	* Lock washer	AISI 304 / 1.4301
16	Fixing screw	AISI 304 / 1.4301
17	Handle stopper pin	AISI 304 / 1.4301
18	Handle stopper	AISI 304 / 1.4301
19	Handle fixing bolt	AISI 304 / 1.4301
20	Handle	AISI 304 / 1.4301
21	Bracket	AISI 304 / 1.4301
22	Bracket stem	AISI 304 / 1.4301
23	Bracket bolts	AISI 304 / 1.4301
24	Gearbox	Cast iron

* 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.



ORDERING CODES M3H												
Valve model	MH	X	X	X	F	X	X	CB	X	150		
M3H 3 pieces ball valve CF3M	MH											
Lever handle												
Flat lever handle stainless steel / plastic cover		X										
Flat lever handle stainless steel / plastic cover w/ lockable system		3										
Bare stem		9										
Material												
CF3M / 1.4409			X									
Seat design												
Standard seats					X							
Cavity fillers					F							
Seat material												
TFM 1600						F						
Surface finish (a)												
Standard surface finish							X					
Electropolished internal wetted parts (SF5)								E				
Special features												
None									X			
Oxygen cleaning										O		
End connections												
TC – Sanitary clamps ASME BPE											CB	
ETO – Extended tube orbital welding ASME BPE (360° rotation design)												TB
TC / ETO – Combination ASME BPE (360° rotation design)												CTB
Ball port												
Full bore (standard)												X
True bore												NA
Size												
6"												150
Special valves / Extras												
Full description or additional codes have to be added in case of a non standard combination												E

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

NA – Not available.

HYGIENIC BALL VALVES M3H TRUE BORE (DN 10 – 50 DIN)

DESCRIPTION

M3H three pieces 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.

A351 CF3M body and ends with ferrite content of less than 2% and low sulphur between 0,005 and 0,017%.

Can be serviced without removal from pipeline.

Tube weld with loose body flanges (360° rotation after installation).

Bidirectional.

Antistatic device.

Anti blow out proof stem.

ISO 5211 mounting.

STANDARD SURFACE FINISH

Internal wetted parts: ≤ 0,51 micron Ra – SF1.

External: as casted.

Ultrasonic cleaning.

OPTIONS: Different sealing materials.
Degreased for oxygen use.
Cavity filler.

USE: Clean steam, gases and liquids compatible with the construction.

AVAILABLE MODELS: M3H – Investment casting.

SIZES: DN 10 to DN 50.

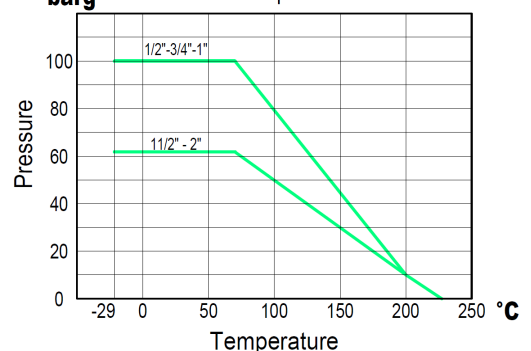
CONNECTIONS: According to DIN 11850 tube.
TC – Sanitary clamps DIN 32676.
ETO – Extended tube orbital welding.
TC / ETO – Combination.

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.



barg Pressure / temperature limits



TFM 1600

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

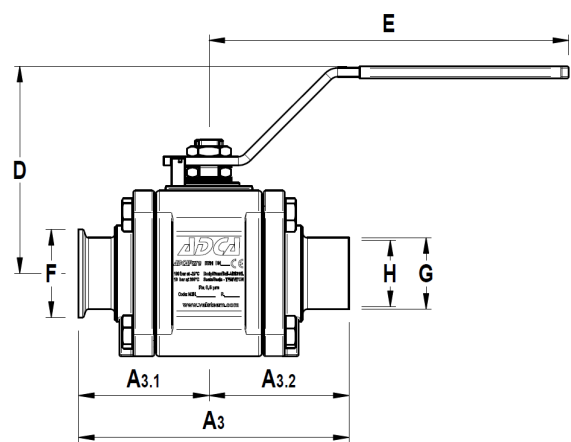
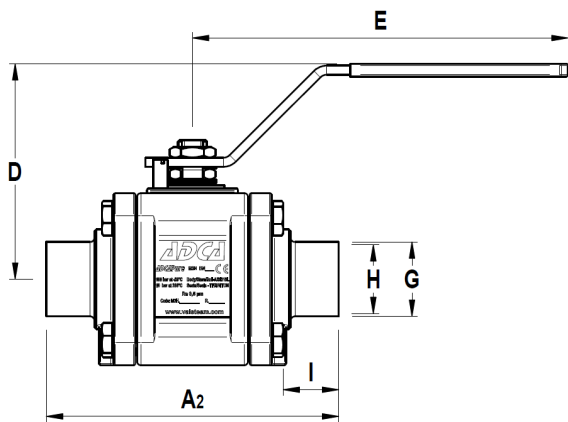
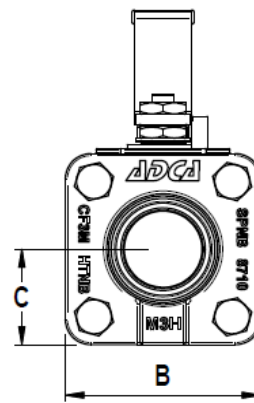
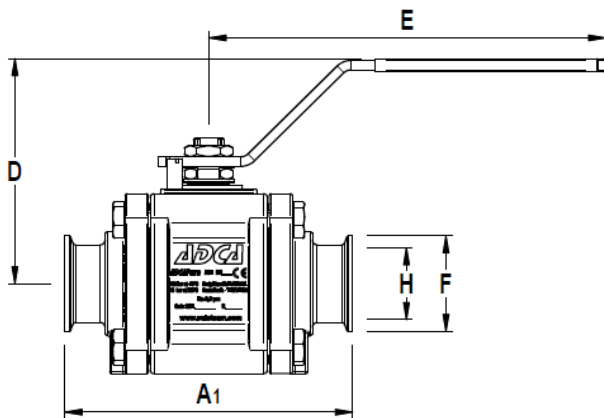
CE MARKING – GROUP 2 (PED – European Directive)

PN63	PN100	Category
–	DN 10 to 20	SEP
DN 25 to 32	–	SEP
DN 40 to 50	–	1 (CE Marked)

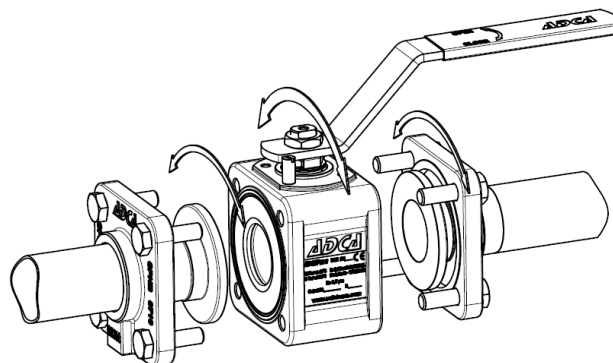
We reserve the right to change the design and material of this product without notice.

DIMENSIONS (mm) DIN

SIZE	A ₁	A ₂	A ₃	A _{3.1}	A _{3.2}	B	C	D	E	F	G	H	I	BALL PORT	ISO 5211	WGT. (kg)
DN 10	90	102	96	45	51	42	21	65	150	34	13	10	25	10	F03	0,73
DN 15	100	114	107	50	57	50	25	69	150	34	19	16	27	16	F03	1,49
DN 20	115	127	121,5	57,5	64	62	31	87	175	34	23	20	27	20	F04	1,94
DN 25	125	135	130,5	62,5	68	72	36	92	175	50,5	29	26	27	26	F04	2,62
DN 32	140	153	147	71	76	85	42,5	114	207	50,5	35	32	27	32	F05	4,41
DN 40	150	161	155	75	80	95	47,5	119	207	50,5	41	38	27	38	F05	5,5
DN 50	165	178	172	82	90	105	52,5	124	232	64	53	50	28	50	F05	7



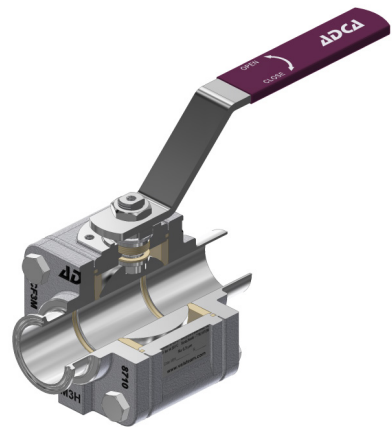
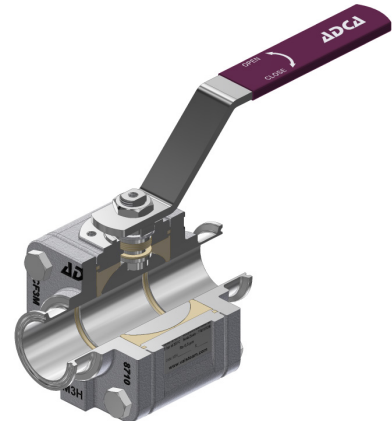
Tube weld easy and quick installation - standard



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

MATERIALS

POS. N°	DESIGNATION	MATERIAL
1	Valve body	CF3M / 1.4409
2	TC end connection	CF3M / 1.4409
3	Tube weld end connection	AISI 316L / 1.4404
4	** Flange	CF3M / 1.4409
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	Antistatic device	AISI 316 / 1.4401
20	* O-ring	Viton

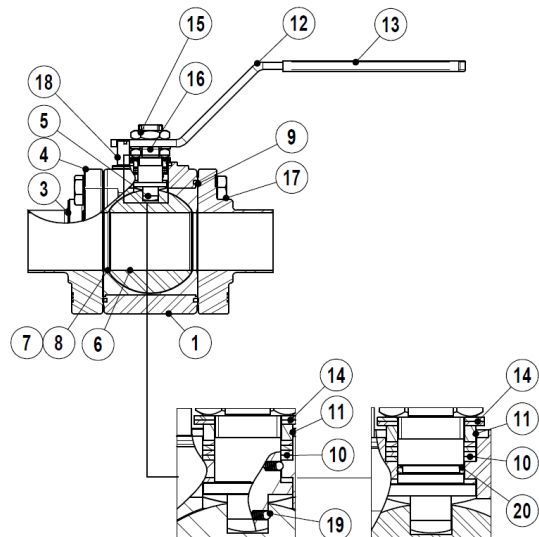
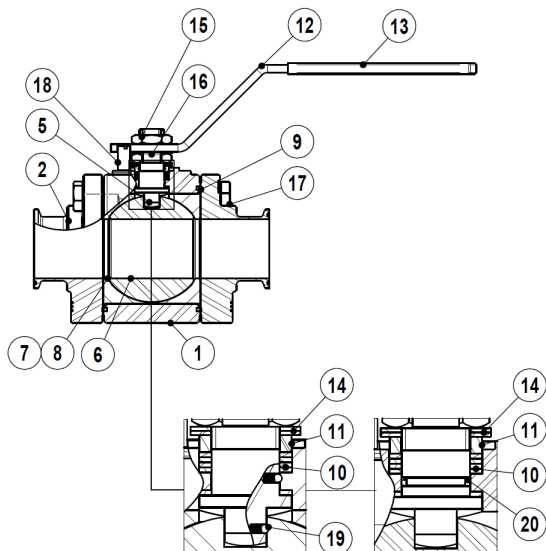


* Available spare parts;

** Loose flange. Allows a 360° rotation of the valve when using tube weld connections.

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.



ORDERING CODES M3H

Valve model	MH	X	X	X	F	X	X	CD	X	15	
M3H 3 pieces ball valve CF3M	MH										
Lever handle											
Flat lever handle stainless steel / plastic cover		X									
Flat lever handle stainless steel / plastic cover w/ lockable system		3									
Bare stem		9									
Material											
CF3M / 1.4409			X								
Seat design											
Standard seats					X						
Cavity fillers					F						
Seat material											
TFM 1600						F					
Surface finish (a)											
Standard surface finish							X				
Electropolished internal wetted parts (SF5)								E			
Special features											
None								X			
Oxygen cleaning									O		
End connections											
TC – Sanitary clamps DIN 32676										CD	
ETO – Extended tube orbital welding DIN 11850 (360° rotation design)											TD
TC / ETO – Combination DIN (360° rotation design)											CTD
Ball port											
True bore (standard)											X
Full bore											NA
Size											
DN 10											10
DN 15											15
DN 20											20
DN 25											25
DN 32											32
DN 40											40
DN 50											50
Special valves / Extras											
Full description or additional codes have to be added in case of a non standard combination											E

(a) Consult IS PV20.00 (Technical information) for further details and other surface finish options.
NA – Not available.

HYGIENIC BALL VALVES M3H FULL BORE (DN 65 – 100 DIN)

DESCRIPTION

M3H 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

Full bore floating ball design.

A351 CF3M body and ends with ferrite content of less than 2% and low sulphur between 0,005 and 0,017%.

Can be serviced without removal from pipeline.

Tube weld with loose body flanges (360° rotation after installation).

Bidirectional.

Antistatic device.

Anti blow out proof stem.

ISO 5211 mounting.

STANDARD SURFACE FINISH

Internal wetted parts: $\leq 0,51$ micron Ra – SF1.

External: as casted.

Ultrasonic cleaning.

OPTIONS: Different sealing materials.
Degreased for oxygen use.
Cavity filler.

USE: Clean steam, gases and liquids compatible with the construction.

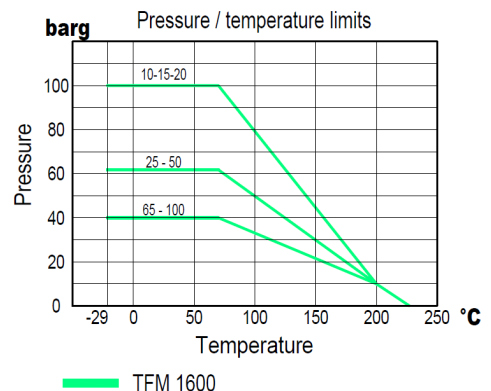
AVAILABLE MODELS: M3H – Investment casting.

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.

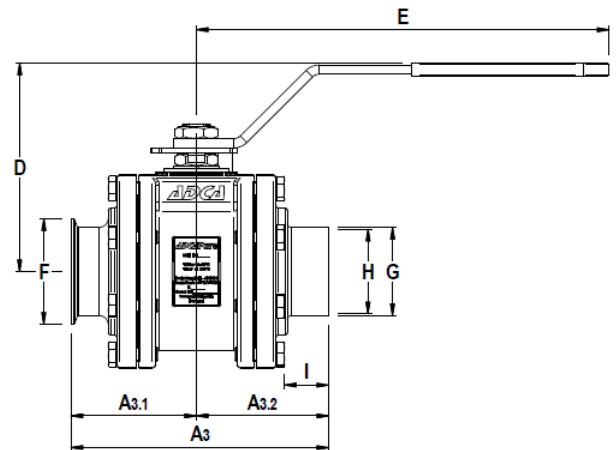
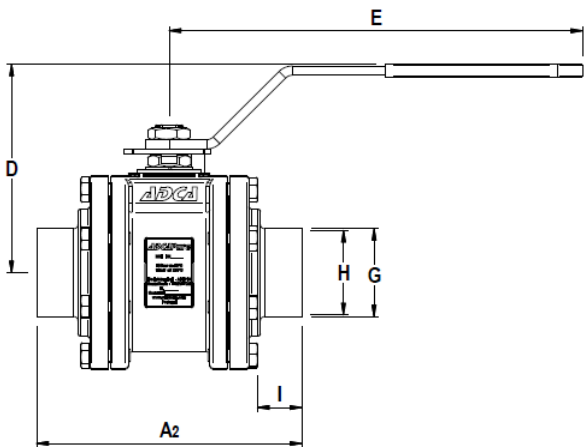
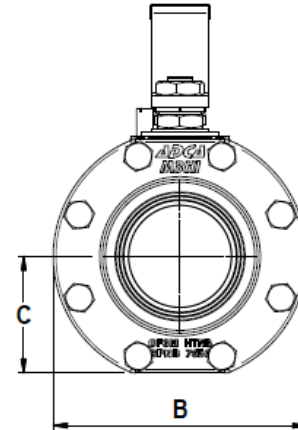
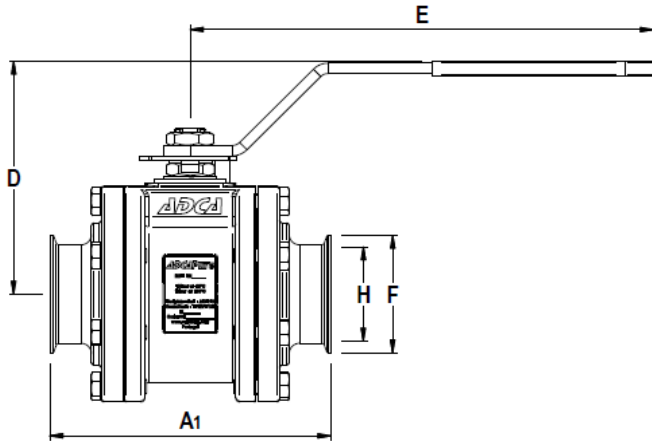


Note: Working pressure may be limited by the valve connections.

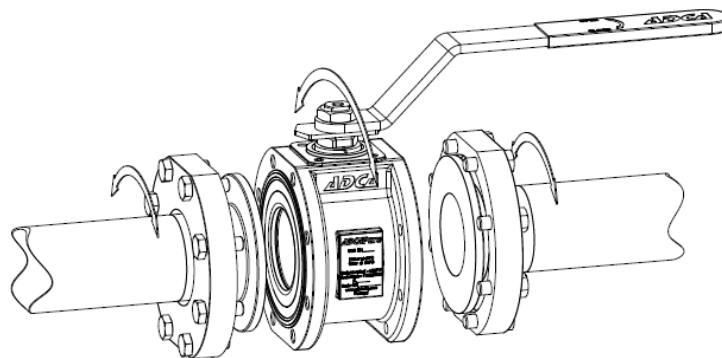
CE MARKING – GROUP 2 (PED – European Directive)	
PN40	Category
DN 65 to DN 100	1 (CE marked)

DIMENSIONS (mm) ASME BPE

SIZE	A1	A2	A3	A3.1	A3.2	B	C	D	E	F	G	H	I	BALL PORT	ISO 5211	WGT. (kg)
65	190	203	197	95	98,5	160	72,5	169	400	91	70	66	37	62	F7	13,3
80	216	228	222	108	111	180	83,5	180	400	106	85	81	38	75	F7	18,6
100	255	267	261	127,5	133,5	220	101,5	198	400	119	104	100	44	98	F10	29,6



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

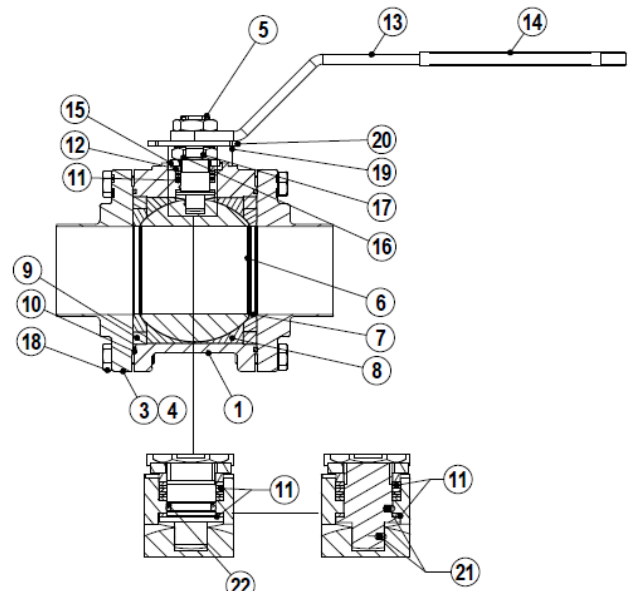
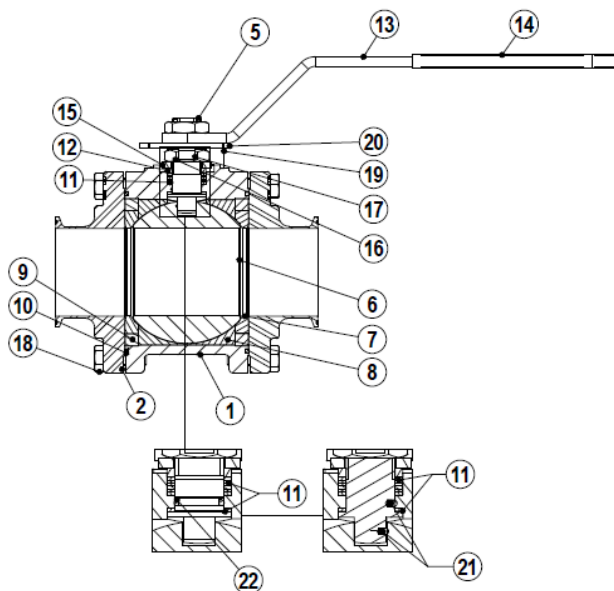
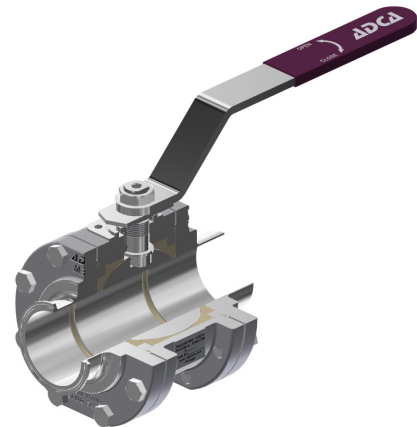
POS. N°	DESIGNATION	MATERIAL
1	Valve body	CF3M / 1.4409
2	TC end connection	CF3M / 1.4409
3	Tube weld end connection	AISI 316L / 1.4404
4	** Flange	AISI 316L / 1.4404
5	Stem	AISI 316L / 1.4404
6	* Valve ball	AISI 316L / 1.4404
7	* Standard seat	TFM 1600
8	* Cavity filler seat	TFM 1600
9	Body ring	AISI 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 sleeve	Vinyl
15	* Spring washers	AISI 304 / 1.4301
16	Compression nut	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	Antistatic device	AISI 316 / 1.4401
22	O-ring	Viton

* Available spare parts;

** Loose flange. Allows a 360° rotation of the valve when using tube weld connections.

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.



ORDERING CODES M3H												
Valve model	MH	X	X	F	F	X	X	CD	X	65	E	
M3H 3 pieces ball valve CF3M	MH											
Lever handle												
Flat lever handle stainless steel / plastic cover		X										
Flat lever handle stainless steel / plastic cover w/ lockable system		3										
Bare stem		9										
Material												
CF3M / 1.4409			X									
Seat design												
Standard seats				X								
Cavity fillers				F								
Seat material												
TFM 1600					F							
Surface finish (a)												
Standard surface finish						X						
Electropolished internal wetted parts (SF5)						E						
Special features												
None							X					
Oxygen cleaning							O					
End connections												
TC – Sanitary clamps DIN 32676								CD				
ETO – Extended tube orbital welding DIN 11850 (360° rotation design)								TD				
TC / ETO – Combination DIN (360° rotation design)								CTD				
Ball port												
True bore (standard)									X			
Full 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											E	

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

NA – Not available.

HYGIENIC BALL VALVES M3H TRUE BORE (1/2" – 2" ASME BPE)

DESCRIPTION

M3H three pieces 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.

A351 CF3M body and ends with ferrite content of less than 2% and low sulphur between 0,005 and 0,017%.

Can be serviced without removal from pipeline.

Tube weld with loose body flanges (360° rotation after installation).

Bidirectional.

Antistatic device.

Anti blow out proof stem.

ISO 5211 mounting.

STANDARD SURFACE FINISH

Internal wetted parts: ≤ 0,51 micron Ra – SF1.

External: as casted.

Ultrasonic cleaning.

OPTIONS: Different sealing materials.
Degreased for oxygen use.
Cavity filler.

USE: Clean steam, gases and liquids compatible with the construction.

AVAILABLE MODELS: M3H – Investment casting.

SIZES: 1/2" to 2".

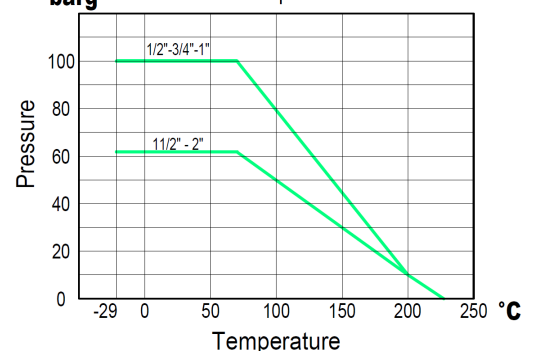
CONNECTIONS: According to ASME BPE.
TC – Sanitary clamps.
ETO – Extended tube orbital welding.
TC / ETO – Combination.

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.



barg Pressure / temperature limits



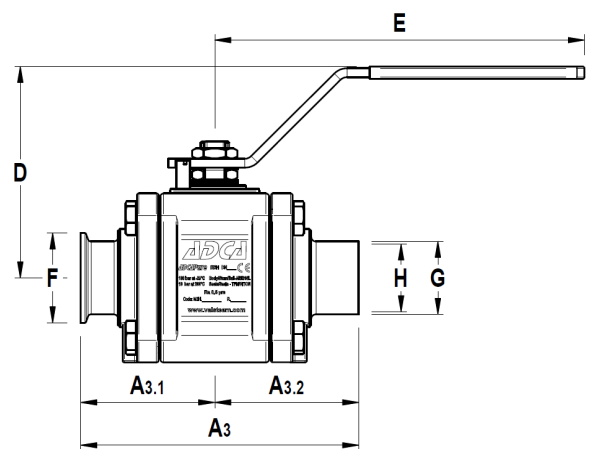
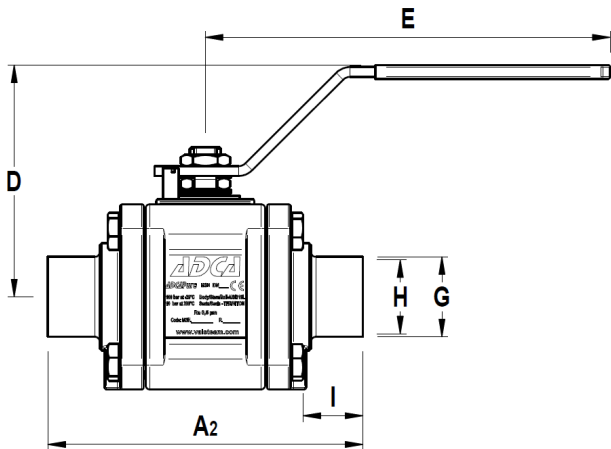
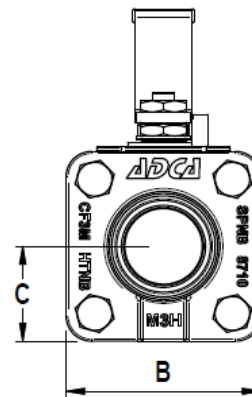
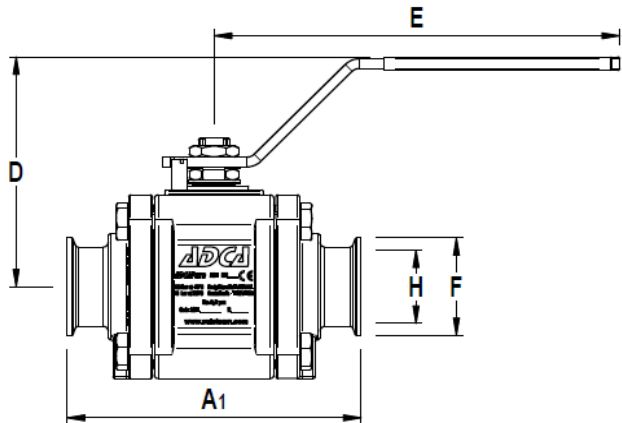
TFM 1600

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

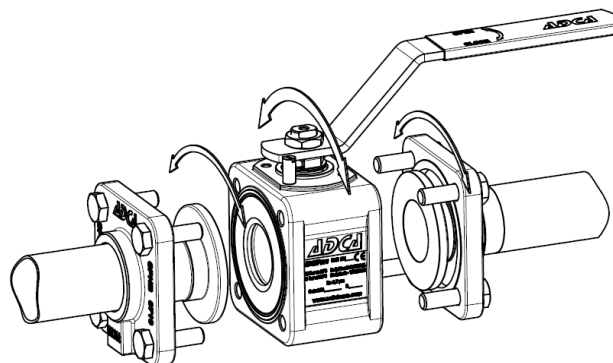
CE MARKING – GROUP 2 (PED – European Directive)		
PN63	PN100	Category
—	1/2" to 1"	SEP
1 1/2" to 2"	—	1 (CE marked)

DIMENSIONS (mm) ASME BPE

SIZE	A ₁	A ₂	A ₃	A _{3.1}	A _{3.2}	B	C	D	E	F	G	H	I	BALL PORT	ISO 5211	WGT. (kg)
1/2"	88,9	101,6	95,5	44	51,5	42	21	65	150	25	12,7	9,4	25	9,4	F03	0,42
3/4"	101,6	114,3	108	51	57	50	25	69	150	25	19,05	15,75	27	15,8	F03	0,99
1"	114,3	127	120,5	57	63,5	62	31	87	175	50,5	25,4	22,1	27	22,1	F04	2,1
1 1/2"	139,7	152,4	146,5	70	76,5	85	42,5	114	207	50,5	38,1	34,8	27	34,8	F05	4,3
2"	165,1	177,8	171,5	82,5	89	105	52,5	124	232	64	50,8	47,5	28	47,5	F05	7,3



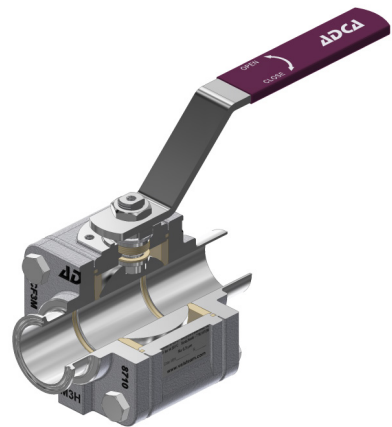
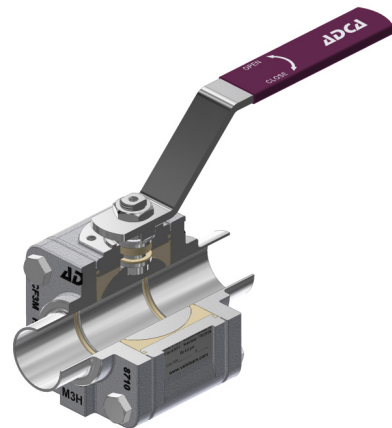
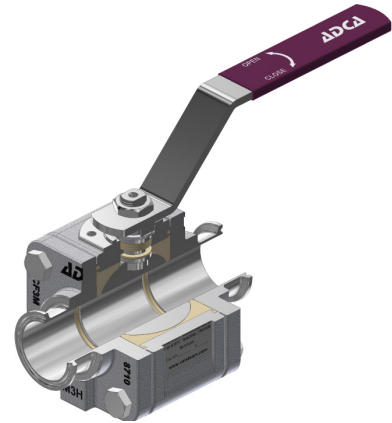
Tube weld easy and quick installation - standard



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

MATERIALS

POS. N°	DESIGNATION	MATERIAL
1	Valve body	CF3M / 1.4409
2	TC end connection	CF3M / 1.4409
3	Tube weld end connection	AISI 316L / 1.4404
4	** Flange	CF3M / 1.4409
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	Antistatic device	AISI 316 / 1.4401
20	O-ring	Viton

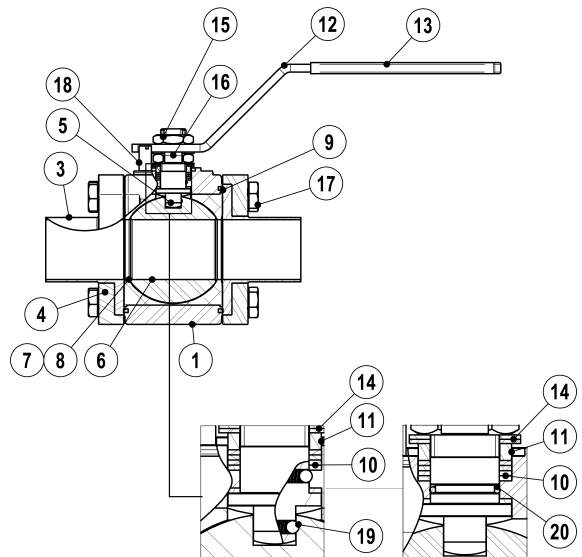
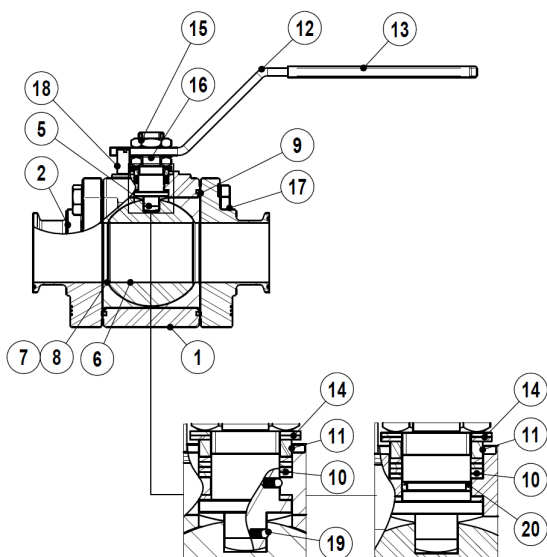


* Available spare parts;

** Loose flange, allows a 360° rotation of the valve when using tube weld connections.

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.



ORDERING CODES M3H											
Valve model	MH	X	X	X	F	X	X	CB	X	15	
M3H 3 pieces ball valve CF3M	MH										
Lever handle											
Flat lever handle stainless steel / plastic cover		X									
Flat lever handle stainless steel / plastic cover w/ lockable system		3									
Bare stem		9									
Material											
CF3M / 1.4409			X								
Seat design											
Standard seats					X						
Cavity fillers					F						
Seat material											
TFM 1600					F						
Surface finish (a)											
Standard surface finish							X				
Electropolished internal wetted parts (SF5)							E				
Special features											
None								X			
Oxygen cleaning								O			
End connections											
TC – Sanitary clamps ASME BPE									CB		
ETO – Extended tube orbital welding ASME BPE (360° rotation design)									TB		
TC / ETO – Combination ASME BPE (360° rotation design)									CTB		
Ball port											
True bore (standard)										X	
Full bore										NA	
Size											
1/2"											15
3/4"											20
1"											25
1 1/2"											40
2"											50
Special valves / Extras											
Full description or additional codes have to be added in case of a non standard combination											E

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

NA – Not available.

**HYGIENIC BALL VALVES
M3H TRUE BORE
(2 1/2" – 4" ASME BPE)**

DESCRIPTION

M3H 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.

A351 CF3M body and ends with ferrite content of less than 2% and low sulphur between 0,005 and 0,017%.

Can be serviced without removal from pipeline.

Tube weld with loose body flanges (360° rotation after installation).

Bidirectional.

Antistatic device.

Anti blow out proof stem.

ISO 5211 mounting.

STANDARD SURFACE FINISH

Internal wetted parts: ≤ 0,51 micron Ra – SF1.

External: as casted.

Ultrasonic cleaning.

OPTIONS: Different sealing materials.
Degreased for oxygen use.
Cavity filler.

USE: Clean steam, gases and liquids compatible with the construction.

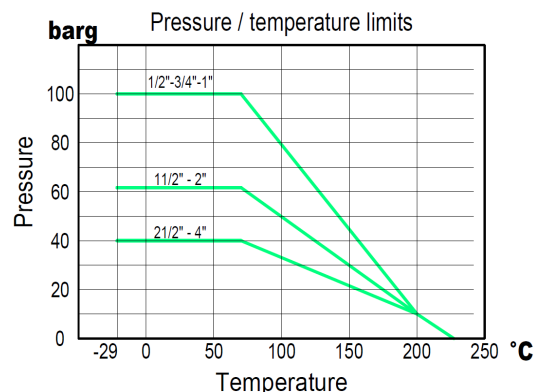
AVAILABLE MODELS: M3H – Investment casting.

SIZES: 2 1/2" 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.



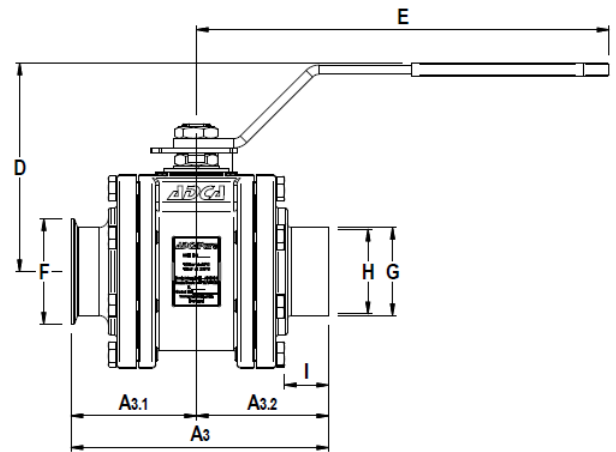
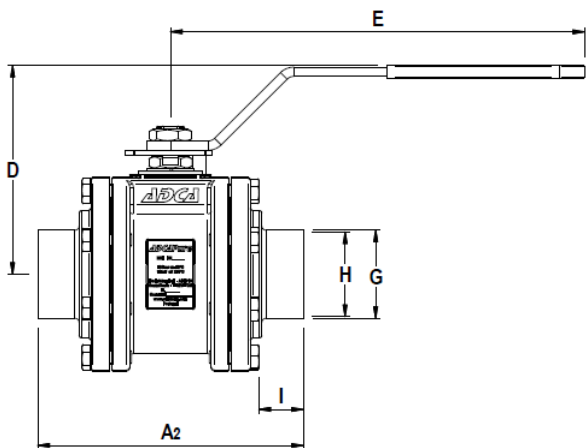
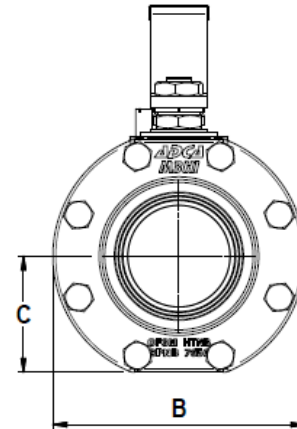
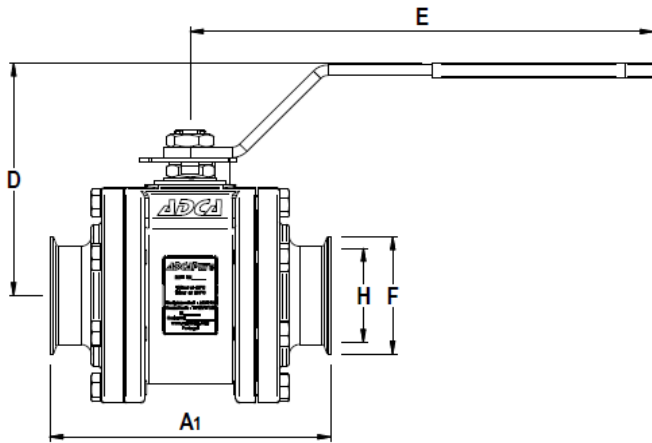
TFM 1600

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

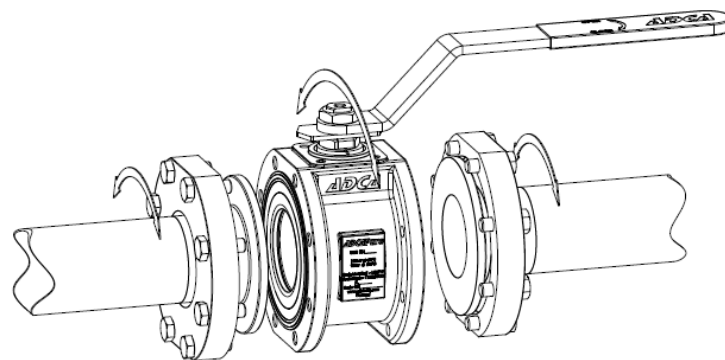
CE MARKING – GROUP 2 (PED – European Directive)	
PN40	Category
2 1/2" to 4"	1 (CE marked)

DIMENSIONS (mm) ASME BPE

SIZE	A1	A2	A3	A3.1	A3.2	B	C	D	E	F	G	H	I	BALL PORT	ISO 5211	WGT. (kg)
2 1/2"	190	203	196,3	95	101,5	160	72,5	169	400	77,5	63,5	60,2	37	60,2	F7	13,3
3"	216	228	222	108	111	180	83,5	180	400	91	76,2	72,9	38	72,9	F7	18,6
4"	254	267	260,5	127	133,5	220	101,5	198	400	119	101,6	97,4	44	97,4	F10	29,6



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

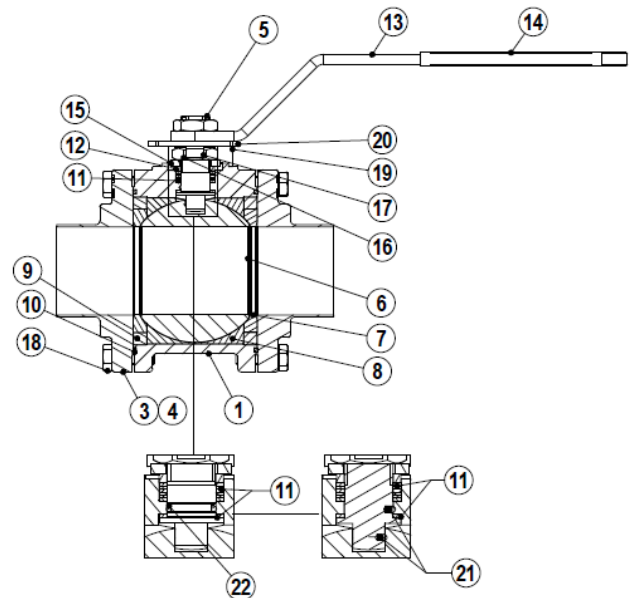
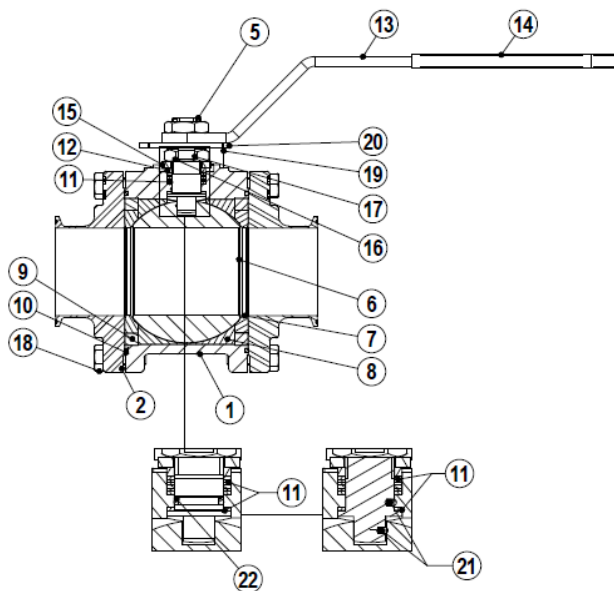
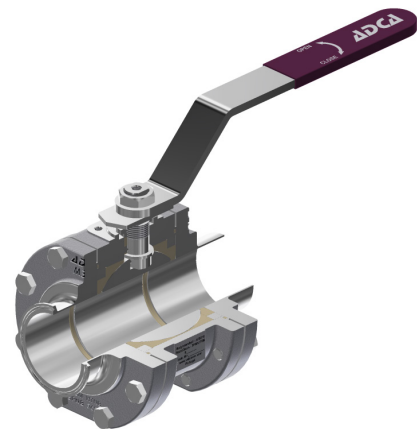
POS. N°	DESIGNATION	MATERIAL
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2	TC end connection	CF3M / 1.4409
3	Tube weld end connection	AISI 316L / 1.4404
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5	Stem	AISI 316L / 1.4404
6	* Valve ball	AISI 316L / 1.4404
7	* Standard seat	TFM 1600
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
15	* Spring washers	AISI 304 / 1.4301
16	Compression nut	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	Antistatic device	AISI 316 / 1.4401
22	O-ring	Viton

* Available spare parts;

** Loose flange. Allows a 360° rotation of the valve when using tube weld connections.

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.



ORDERING CODES M3H											
Valve model	MH	X	X	X	F	X	X	CB	X	65	
M3H 3 pieces ball valve CF3M	MH										
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Seat material											
TFM 1600					F						
Surface finish (a)											
Standard surface finish						X					
Electropolished internal wetted parts (SF5)						E					
Special features											
None								X			
Oxygen cleaning								O			
End connections											
TC – Sanitary clamps ASME BPE									CB		
ETO – Extended tube orbital welding ASME BPE (360° rotation design)									TB		
TC / ETO – Combination ASME BPE (360° rotation design)									CTB		
Ball port											
True bore (standard)										X	
Full bore											NA
Size											
2 1/2"											65
3"											80
4"											100
Special valves / Extras											
Full description or additional codes have to be added in case of a non standard combination											E

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

NA – Not available.