



### 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. Antistatic device. 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:  $\leq 0,51$  micron Ra – SF1. External :  $\leq 0,76$  micron Ra – SF3. Other surface conditions see IS PV20.00 E – Technical information. Ultrasonic cleaning.

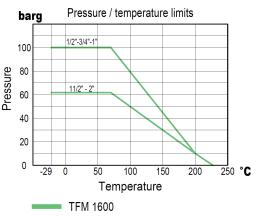
OPTIONS:	Different sealing materials.
	1/2" and 3/4" ISO mounting with flange adapter.
	Degreased for oxygen use.
	Cavity filler.

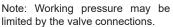
USE: Clean steam, gases and liquids compatible with the construction. AVAILABLE

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.







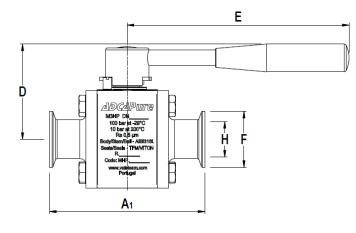
CE MARKING – GROUP 2 (PED – European Directive)									
PN63	PN63 PN100 Category								
	1/2" to 1"	SEP							
11/2" to 2"	—	1 (CE marked)							

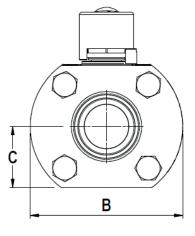
## VALSTEAM ДДСД

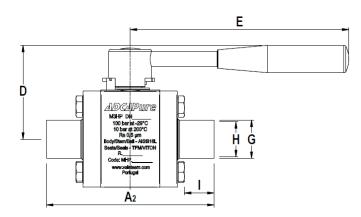
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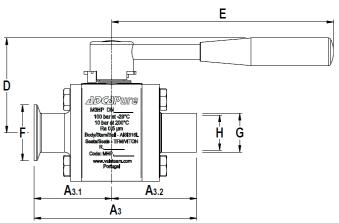








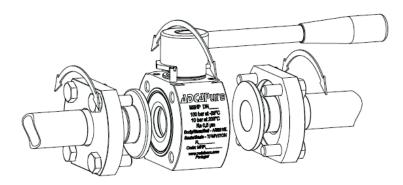




	DIMENSIONS (mm) ASME BPE															
SIZE	A1	A2	A3	A3.1	A3.2	в	с	D	E	F	G	Н	I	BALL PORT	ISO 5211	WGT. (kg)
1/2"	88,9	101,6	95,5	44	51,5	59	22	49	130	25	12,7	9,4	25	9,4	F03 *	0,9
3/4"	101,6	114,3	108	51	57	64	24,5	53	130	25	19,05	15,75	27	15,8	F03 *	1,4
1"	114,3	127	120,5	57	63,5	79	31	68	165	50,5	25,4	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 the welded end connections. After installation the valve can rotate 360° for the desired orientation.



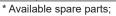




	MATERIALS								
POS. Nº	DESIGNATION	MATERIAL							
1	Valve body	AISI 316L / 1.4404							
2	TC end connection	AISI 316L / 1.4404							
3	Tube weld end connection	AISI 316L / 1.4404							
4	Flange	AISI 316L / 1.4404							
5	Stem	AISI 316L / 1.4404							
6	* Valve ball	AISI 316L / 1.4404							
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							

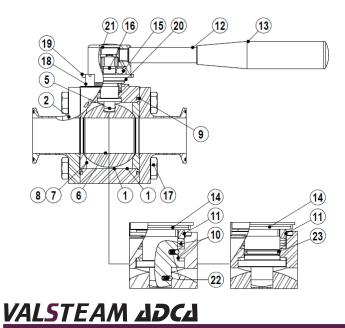


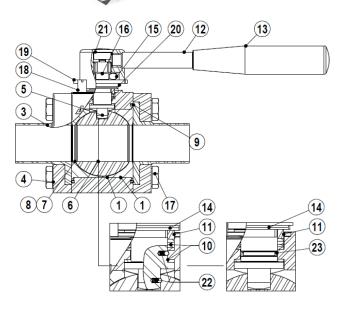




Remarks: FDA / USP Class VI seals certificate on request.

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









### HIGH PURITY BALL VALVES M3HP TRUE BORE (21/2" – 4" 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. Antistatic device. Anti blow out proof stem. Tube weld with loose body flanges (360° rotation after installation). ISO 5211 mounting.

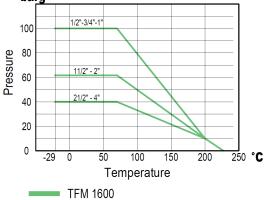
#### STANDARD SURFACE FINISH

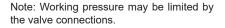
Internal wetted parts:  $\leq 0,51$  micron Ra – SF1. External :  $\leq 0,76$  micron Ra – SF3. Other surface conditions see IS PV20.00 E – Technical information. Ultrasonic cleaning.

OPTIONS:	Different sealing materials. Degreased for oxygen use. Cavity filler.						
	Clean steam, gases and liquids compatible with the construction.						
AVAILABLE MODELS:	M3HP – Complete bar stock construction.						
SIZES:	21/2" 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.







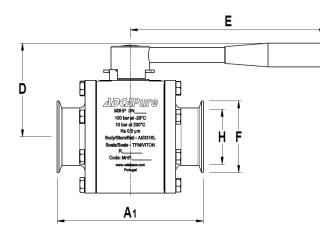
CE MARKING – GROUP 2 (PED – European Directive)								
PN40	Category							
21/2" to 4"	1 (CE marked)							

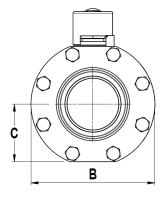
## VALSTEAM ADCA

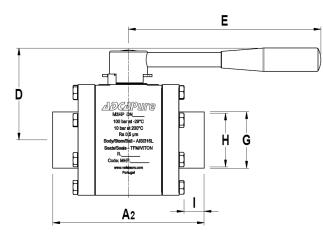
We reserve the right to change the design and material of this product without notice.

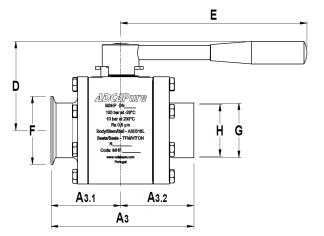






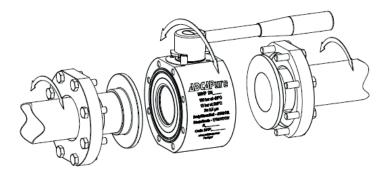






	DIMENSIONS (mm) ASME BPE															
SIZE	A1	A2	A3	A3.1	A3.2	в	с	D	E	F	G	н	I	BALL PORT	ISO 5211	WGT. (kg)
21/2"	190	203	196,3	95	101,5	160	72,5	130	250	77,5	63,5	60,2	29	60,2	F7	15,3
3"	216	228	222	108	114	180	83,5	140	290	91	76,2	72,9	30	72,9	F7	22,1
4"	254	267	260,5	127	133,5	220	101,5	158	290	119	101,6	97,4	36	97,4	F10	39,7

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.

# VALSTEAM ADCA



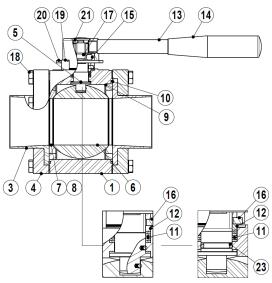


	MATERI	ALS						
POS. Nº	DESIGNATION	MATERIAL						
1	Valve body	AISI 316L / 1.4404						
2	TC end connection	AISI 316L / 1.4404						
3	Tube weld end connection	AISI 316L / 1.4404						
4	Flange	AISI 316L / 1.4404						
5	Stem	AISI 316L / 1.4404						
6	* Valve ball	AISI 316L / 1.4404						
7	* Standard seat	TFM 1600						
8	* Cavity filler seat	TFM 1600						
9	Body 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						





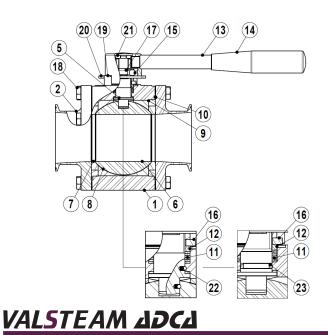




\* Available spare parts;

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.







### HIGH PURITY BALL VALVES M3HP TRUE BORE (6" 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. Antistatic device. Anti blow out proof stem. Tube weld with loose body flanges (360° rotation after installation). ISO 5211 mounting.

#### STANDARD SURFACE FINISH

Internal wetted parts:  $\leq 0,51$  micron Ra – SF1. External :  $\leq 0,76$  micron Ra – SF3. Other surface conditions see IS PV20.00 E – Technical information. Ultrasonic cleaning.

OPTIONS:	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:	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.							
	See IMI Installation and maintenance							

INSTALLATION: See IMI – Installation and maintenance instructions.





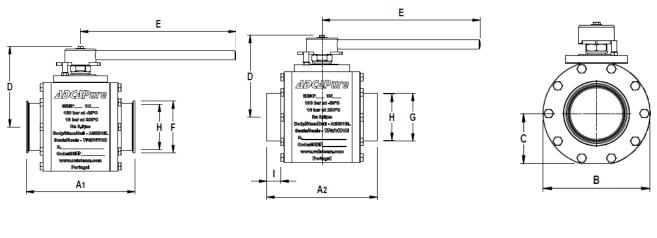


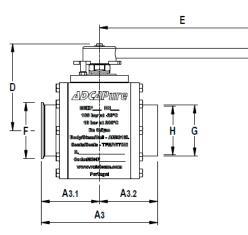
CE MARKING – GROUP 2 (PED – European Directive)							
PN16	Category						
6"	1 (CE marked)						

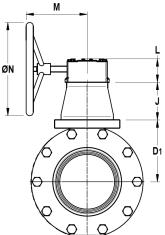
## VALSTEAM ADCA





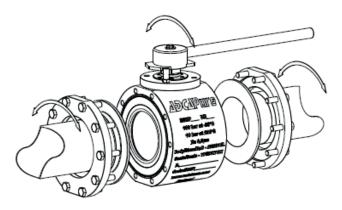






	DIMENSIONS (mm) ASME BPE																				
SIZE	A1	A2	A3	A3.1	A3.2	в	с	D	D1	Е	F	G	н	I	J	L	м	N	BALL PORT	ISO 5211	WGT. (kg)
6"	350	350	350	175	175	300	144	260	166	500	167	152	147	45	101	63	164	250	152,4	F14	101,6

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.

## VALSTEAM ADCA





	MATERI	ALS						
POS. Nº	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 ring	AISI 316L / 1.4404						
10	* Body seal	PTFE						
11	* Stem seals	TFM 1600						
12	* Stem thrust seal	TFM 1600 + PEEK						
13	ISO flange	AISI 316L / 1.4404						
14	ISO flange seal	TFM 1600						
15	* Spacer	AISI 316 / 1.4401						
17	Bolts	AISI 304 / 1.4301						
18	Spring washer	AISI 304 / 1.4301						
19	Compression nut	AISI 304 / 1.4301						
20	* Lock washer	AISI 304 / 1.4301						
21	Fixing screw	AISI 304 / 1.4301						
22	Handle stopper pin	AISI 304 / 1.4301						
23	Handle stopper	AISI 304 / 1.4301						
24	Handle fixing bolt	AISI 304 / 1.4301						
25	Handle	AISI 304 / 1.4301						
26	Bracket	AISI 304 / 1.4301						
27	Bracket stem	AISI 304 / 1.4301						
28	Bracket bolts	AISI 304 / 1.4301						
29	Gear box	Cast iron						

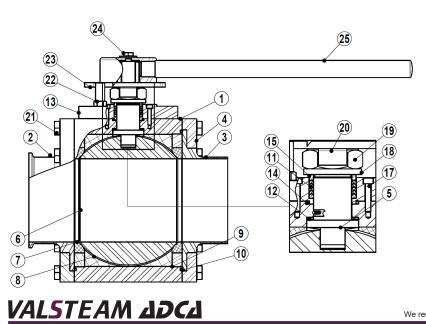


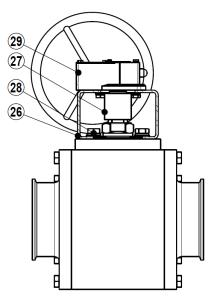


\* Available spare parts;

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.





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