



## **HIGH PURITY BALL VALVES M3HP TRUE BORE** (21/2" - 4" ASME BPE)

| 21/2" to 4"   | 1 (CE marked) TFM 1600  |
|---|---|
| PN40  | Category Temperature  |
|   | (PED – European Directive) 0 -29 0 50 100 150 200 250 ℃   |
| PACKAGING:  | Assembling and packaging in a clean room<br>certified according to ISO 14644-1.<br>The product is end capped and sealed with<br>recyclable thermo-shrinkable plastic film, to<br>avoid contamination.<br>See IMI, installation and maintenance<br>instructions.                                       |
| CONNECTIONS:  | According to ASME BPE.<br>TC – Sanitary clamps.<br>ETO – Extended tube orbital welding.<br>TC / ETO – Combination.  |
| SIZES:  | M3HP – Complete bar stock construction.<br>21/2" to 4".   |
| AVAILABLE<br>MODELS:  | M2HD Complete her steck construction  |
| USE:  | Different sealing materials.<br>Degreased for oxygen use.<br>Cavity filler.<br>Clean steam, gases and liquids compatible<br>with the construction.  |
| External: ≤ 0,76 mi   | s: ≤ 0,51 micron Ra – SF1.<br>cron Ra – SF3.<br>ditions see IS PV20.00 E – Technical  |
|   | rom solid bar stock material.<br>thout removal from pipeline.<br>stem.<br>se body flanges.<br>installation).  |
| designed for use w<br>gases and liquids<br>processes.<br>The valve is not do<br>only be used as<br>closed.<br>The product is ma | body ball valves are isolating valves<br>ith clean steam, condensate and other<br>is used in high purity and aseptic<br>esigned as a control valve and should<br>an isolating valve, fully open or fully<br>inly designed for the pharmaceutical,<br>actor, cosmetics, fine chemical, food<br>stries. |
| DESCRIPTION   |   |

VALSTEAM ADCA

Working pressure may be limited by the valve connections.

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



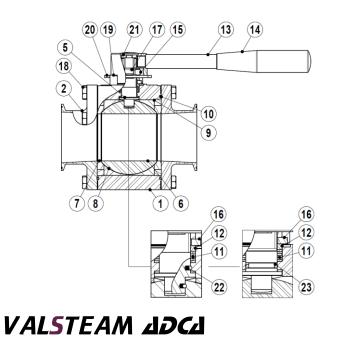
| MATERIALS |                              |                    |  |  |  |  |  |  |  |  |
|-----------|------------------------------|--------------------|--|--|--|--|--|--|--|--|
| POS.<br>№ | DESIGNATION                  | MATERIAL           |  |  |  |  |  |  |  |  |
| 1         | Valve body                   | 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              |  |  |  |  |  |  |  |  |
| * Avail   | able spare parts; ** On requ | est.               |  |  |  |  |  |  |  |  |

ADCA





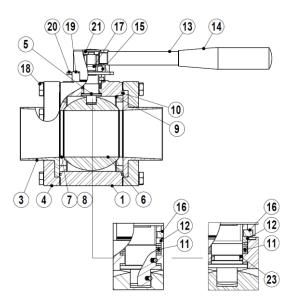




All valves have a serial number. In case of non standard valves this

FDA / USP Class VI seals certificate on request.

number must be supplied if spare parts are ordered.

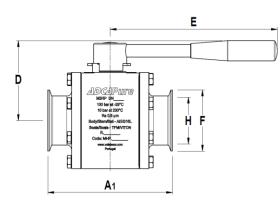


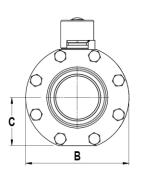
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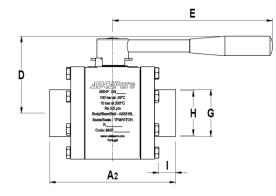


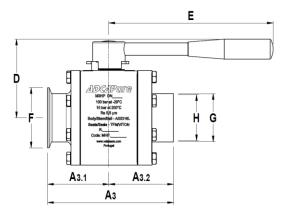


| DIMENSIONS (mm) ASME BPE |            |            |       |              |              |     |       |     |     |      |       |      |    |              |             |              |
|--------------------------|------------|------------|-------|--------------|--------------|-----|-------|-----|-----|------|-------|------|----|--------------|-------------|--------------|
| SIZE                     | <b>A</b> 1 | <b>A</b> 2 | Аз    | <b>A</b> 3.1 | <b>A</b> 3.2 | в   | с     | D   | Е   | ØF   | ØG    | ØН   | I  | BALL<br>PORT | ISO<br>5211 | WGT.<br>(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         |

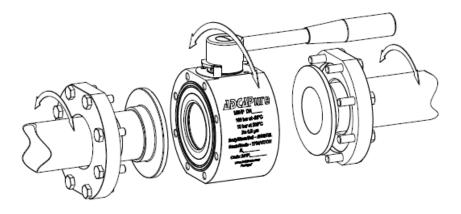








Tube weld easy and quick installation - standard



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







## **ORDERING CODES M3HP**

| Valve model  | MHP      | •    | 1   |       | F     | F |     |     | СВ  |  |     | 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 options                         |          |      |     |       |       |   |     |     |     |  |     |     |   |
| Standard surface finish (mechanical polishing)                       |          |      |     |       |       |   | (*) |     |     |  |     |     |   |
| Electropolishing   |          |      |     |       |       |   |     |     |     |  |     |     |   |
| Oxygen cleaning  |          |      |     |       |       |   | 2   |     |     |  |     |     |   |
| Antistatic device  |          |      |     |       |       |   |     |     |     |  |     |     |   |
| None   |          |      |     |       |       |   |     | (*) |     |  |     |     |   |
| Antistatic device  |          |      |     |       |       |   |     | Α   |     |  |     |     |   |
| End connections  |          |      |     |       |       |   |     |     |     |  |     |     |   |
| TC – Sanitary clamps ASME BPE  |          |      |     |       |       |   |     |     | СВ  |  |     |     |   |
| ETO – Extended tube orbital welding ASME BPE                         |          |      |     |       |       |   |     |     |     |  |     |     |   |
| TC / ETO – Combination ASME BPE (360° rotation)                      |          |      |     |       |       |   |     |     | СТВ |  |     |     |   |
| Ball port  |          |      |     |       |       |   |     |     |     |  |     |     |   |
| True bore (standard)   |          |      |     |       |       |   |     |     |     |  | (*) |     |   |
| Full bore  |          |      |     |       |       |   |     |     |     |  | NA  |     |   |
| Size   |          |      |     |       |       |   |     |     |     |  |     |     |   |
| 21/2"  |          |      |     |       |       |   |     |     |     |  |     | 65  |   |
| 3"   |          |      |     |       |       |   |     |     |     |  |     | 80  |   |
| 4"   |          |      |     |       |       |   |     |     |     |  |     | 100 |   |
| Special valves / I   | Extras   |      |     |       |       |   |     |     |     |  |     |     |   |
| Full description or additional codes have to be added in case of a n | on stand | lard | com | nbina | atior | ۱ |     |     |     |  |     |     | Е |

Full description or additional codes have to be added in case of a non standard combination (\*) Ommited if a standard valve is requested. NA – Not available.