Valsteam ADCA is an EHEDG Member

# HIGH PURITY BALL VALVES M3HP TRUE BORE <br> (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 ( $360^{\circ}$ rotation after installation). ISO 5211 mounting (only sizes $\geq$ DN 20).


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.


| CE MARKING - GROUP 2 <br> (PED - European Directive) |  |  |
| :---: | :---: | :---: |
| PN63 | PN100 | Category |
| - | DN 10 to 20 | SEP |
| DN 25 to 32 | - | SEP |
| DN 40 to 50 |  | 1 (CE Marked) |

ADCA


| DIMENSIONS (mm) DIN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SIZE | A1 | A2 | A3 | A3.1 | A3.2 | B | C | D | E | F | G | H | I | BALL PORT | $\begin{aligned} & \text { ISO } \\ & 5211 \end{aligned}$ | WGT. <br> (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 $360^{\circ}$ for the desired orientation.

| MATERIALS |  |  |
| :---: | :---: | :---: |
| $\begin{aligned} & \hline \text { POS. } \\ & \mathbf{N}^{\circ} \end{aligned}$ | 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.


Valsteam ADCA is an EHEDG Member
$\triangle D C A$ Purfe

# HIGH PURITY BALL VALVES M3HP FULL BORE <br> (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.

## MAIN FEATURES

Full 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 ( $360^{\circ}$ 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.
$\begin{array}{ll}\text { OPTIONS: } & \text { Different sealing materials. } \\ & \text { Degreased for oxygen use. } \\ & \text { Cavity filler. }\end{array}$
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.



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

| CE MARKING - GROUP 2 <br> (PED - European Directive) |  |
| :---: | :---: |
| PN40 | Category |
| DN 65 to DN 100 | 1 (CE marked) |



| DIMENSIONS (mm) DIN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SIZE | A1 | A2 | A3 | A3.1 | A3.2 | B | C | D | E | F | G | H | I | $\begin{aligned} & \text { BALL } \\ & \text { PORT } \end{aligned}$ | $\begin{aligned} & \text { ISO } \\ & 5211 \end{aligned}$ | WGT. <br> (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 the welded end connections.
After installation the valve can rotate on $360^{\circ}$ for the desired orientation.

| MATERIALS |  |  |
| :---: | :---: | :---: |
| $\begin{gathered} \text { POS. } \\ \mathbf{N}^{\circ} \end{gathered}$ | 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.


