



# High Purity Ball Valves

**BPE, DIN 11850, ISO 1127 dimensions**



# MODENTIC

**For a broad range of sanitary applications including**

Pharmaceuticals  
Biological products  
Food / Beverage  
Cosmetics  
Fine Chemicals



0343



PED MODULE H  
Certificate:0038/PED/SHA/6013557/A




DIN EN ISO 9001  
Certificate:TWN6013557



## General Description

Modentic high purity ball valves are designed in accordance with ASME BPE for the applications of clean steam and other high purity and aseptic processes.

Available dimensions: ASME/BPE;  
DIN 11850; ISO 1127

These valves comply with the requirements of European Pressure Equipment Directive 97/23/EC carry the  marks when required.

All models of valves can be made with capability for Clean-in-Place / Steam-in-Place service  
Uninterrupted flow tube bore is designed throughout the flow path including ball, seats and end connections

## Our production advantages

- Availability of valves of both Forging (Size: 1/2" ~ 2" ) & Casting ( Size : 1/2" ~ 4" )
- Design concept of low maintenance; minimizing dead leg
- High / Low temperature; High / Low pressure Ball Valves
- In-house Electro-polishing to ensure consistent surface finish
- Capability of offering wide range of body material

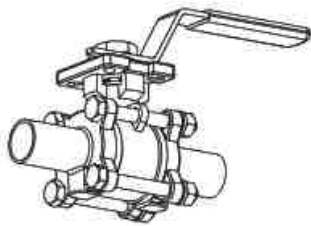


## Product line

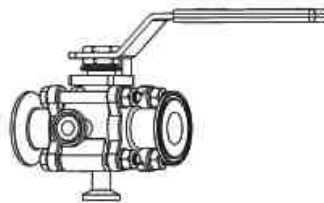
- 2 Way Ball Valves
- CIP / SIP Ball Valves
- Trap Valves
- API 607 Fire Safe Ball Valves
- Flush Tank Ball Valves
- Extension Stem ball Valves
- Multi Way Ball Valves
- Sample Valves



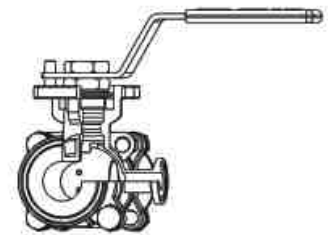
## CIP/SIP Purge types



- Bosses on End connection adapting with purge ports



- 2 purge ports on body



- 1 purge port on body + 2 purge holes on ball

### Material construction:

Compliance with ASME / BPE requirement

Available in both forged (SS316L) and cast (CF3M) pieces of stainless steel; Higher grade materials are available upon request, such as AL-6XN, Nickel Alloys, Stainless Steel Duplex.

### Tube connection feature to facilitate automatic orbital welding

ASME BPE compliant extended tube so that orbital welding can be performed without valve disassembled  
Sulfur content on tube ends 0.005%~0.017% to ensure consistent weldability

### Polishing

Precision machining and Mechanical polishing (SFV1 Ra20 $\mu$ -in) / Electro-polishing (SFV4 Ra15 $\mu$ -in)

### Seat and seal rings selection We only

select FDA-USP 23, Class VI approved seat materials for high purity ball valves  
TFM 1600 ( Temp: -60~475F; Pressure: 1500psi)

Peek (Temp: -20 ~ 600F; Pressure: 3000psi)

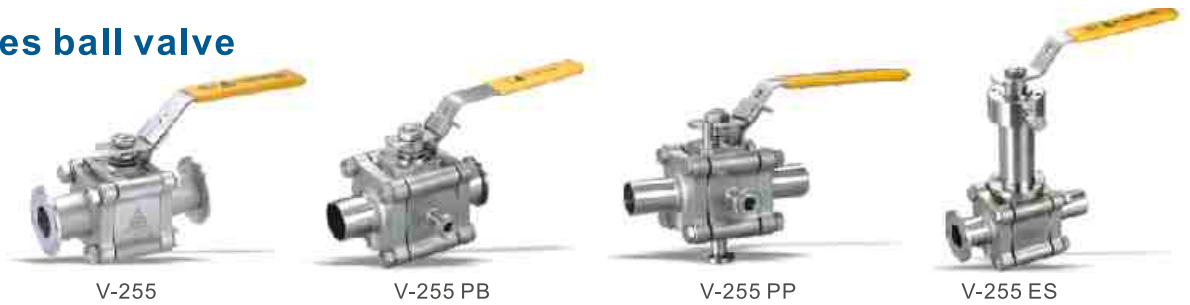
### Valve Options

Ground wire  
Cavity fillers  
Actuation assembling



# High Purity Ball Valves BPE, DIN 11850, I

## V-255 series ball valve



|            |   |                 |  |
|------------|---|-----------------|--|
| Valve type | : 2 way ball valve<br>Purge ball valves<br>Steam trap valves<br>Extension stem ball valves<br>Fire safe design for option | Size            | : 1/2" ~ 2"  |
| Material   | : CF3M (Sulfur content 0.005%~0.017%)   | End connection: | Tube End / Clamp End   |
|            |   | Purge options   | : purge from end connection<br>2 purge ports on body<br>1 purge port on body + 2 purge holes on ball |

### How to Identify Modentic Clean Ball Valves

| Series No. | Valve Type                   | CIP/SIP Purge Type                            | End Connection |
|------------|------------------------------|---|----------------|
| V-255      | – 2 Way Clean Ball Valve     | PP 2 purge ports on body                      | EB Tube End    |
|            | S Steam Trap Valves          | PB 1 purge port on body+2 purge holes on ball | TC Clamp End   |
|            | ES Extension Stem Ball Valve |   |                |
|            | FS Fire Safe Ball Valve      |   |                |

| Series No. | Valve Type               | CIP/SIP Purge Type                            | End Connection |
|------------|--------------------------|---|----------------|
| MD-918     | – 2 Way Clean Ball Valve | PP 2 purge ports on body                      | EB Tube End    |
|            | S Steam Trap Valves      | PB 1 purge port on body+2 purge holes on ball | TC Clamp End   |

| Series No. | Valve Type               | CIP/SIP Purge Type                            | End Connection |
|------------|--------------------------|---|----------------|
| MD-928     | – 2 Way Clean Ball Valve | PP 2 purge ports on body                      | EB Tube End    |
|            | S Steam Trap Valves      | PB 1 purge port on body+2 purge holes on ball | TC Clamp End   |

| Series No. | Valve Type               | CIP/SIP Purge Type | End Connection |
|------------|--------------------------|--------------------|----------------|
| K-324      | – 3 Way Clean Ball Valve |                    | EB Tube End    |
|            | – 4 Way Clean Ball Valve |                    | TC Clamp End   |

| Series No. | Valve Type               | CIP/SIP Purge Type                            | End Connection |
|------------|--------------------------|---|----------------|
| MD-938     | – 2 Way Clean Ball Valve | PP 2 purge ports on body                      | EB Tube End    |
|            |                          | PB 1 purge port on body+2 purge holes on ball | TC Clamp End   |

| Series No. | Valve Type               | CIP/SIP Purge Type | End Connection |
|------------|--------------------------|--------------------|----------------|
| MD-968     | – 3 Way Clean Ball Valve |                    | EB Tube End    |
|            |                          |                    | TC Clamp End   |

| Series No. | Valve Type                 | CIP/SIP Purge Type                            | End Connection |
|------------|----------------------------|---|----------------|
| V-058C     | T 2 Way Tank Valve         |   | EB Tube End    |
|            | TS 2 Way Tank Sample Valve | PB 1 purge port on body+2 purge holes on ball | TC Clamp End   |

Example: a V-255 series 2 way ball valve with 2 Purge port on body, Tube End, the model no. is V-255PPEB

## MD-918 series Forged Ball Valves



MD-918



MD-918 PB



MD-918 PP

|            |  |                 |   |
|------------|--|-----------------|---|
| Valve type | : 2 way ball valve<br>Purge ball valves<br>Steam trap valves | Size            | : 1/2" ~ 2"   |
| Material   | : ASTM A182 F316L<br>(Sulfur content 0.005%~0.017%)          | End connection: | Tube End / Clamp End  |
|            |  | Purge options   | : purge from end connection<br>2 purge ports on body<br>1 purge port on body + 2 purgeholes on ball |

## MD-928 series



MD-928



MD-928 PB



MD-928 PP

|            |  |                 |  |
|------------|--|-----------------|--|
| Valve type | : 2 way ball valve<br>Purge ball valves<br>Steam trap valves | End connection: | Tube End / Clamp End   |
| Material   | : CF3M (Sulfur content 0.005%~0.017%)                        | Purge options   | : purge from end connection<br>2 purge ports on body<br>1 purge port on body + 2 purge holes on ball |
| Size       | : 1/2" ~ 4"  |                 |  |

## MD-938 2 way ball valves



|                 |                      |
|-----------------|----------------------|
| Material        | : SS316L             |
| Size            | : 1/2" ~ 2"          |
| End connection: | Tube End / Clamp End |

## MD-968 3 way ball valves



|                 |                      |
|-----------------|----------------------|
| Material        | : SS316L             |
| Size            | : 1/2" ~ 2"          |
| End connection: | Tube End / Clamp End |

## K-324 3/4 way ball valves



|                 |                     |
|-----------------|---------------------|
| Material        | : CF3M              |
| Size            | : 1/2" ~ 4"         |
| End connection: | Tube End /Clamp End |

## V-058C series



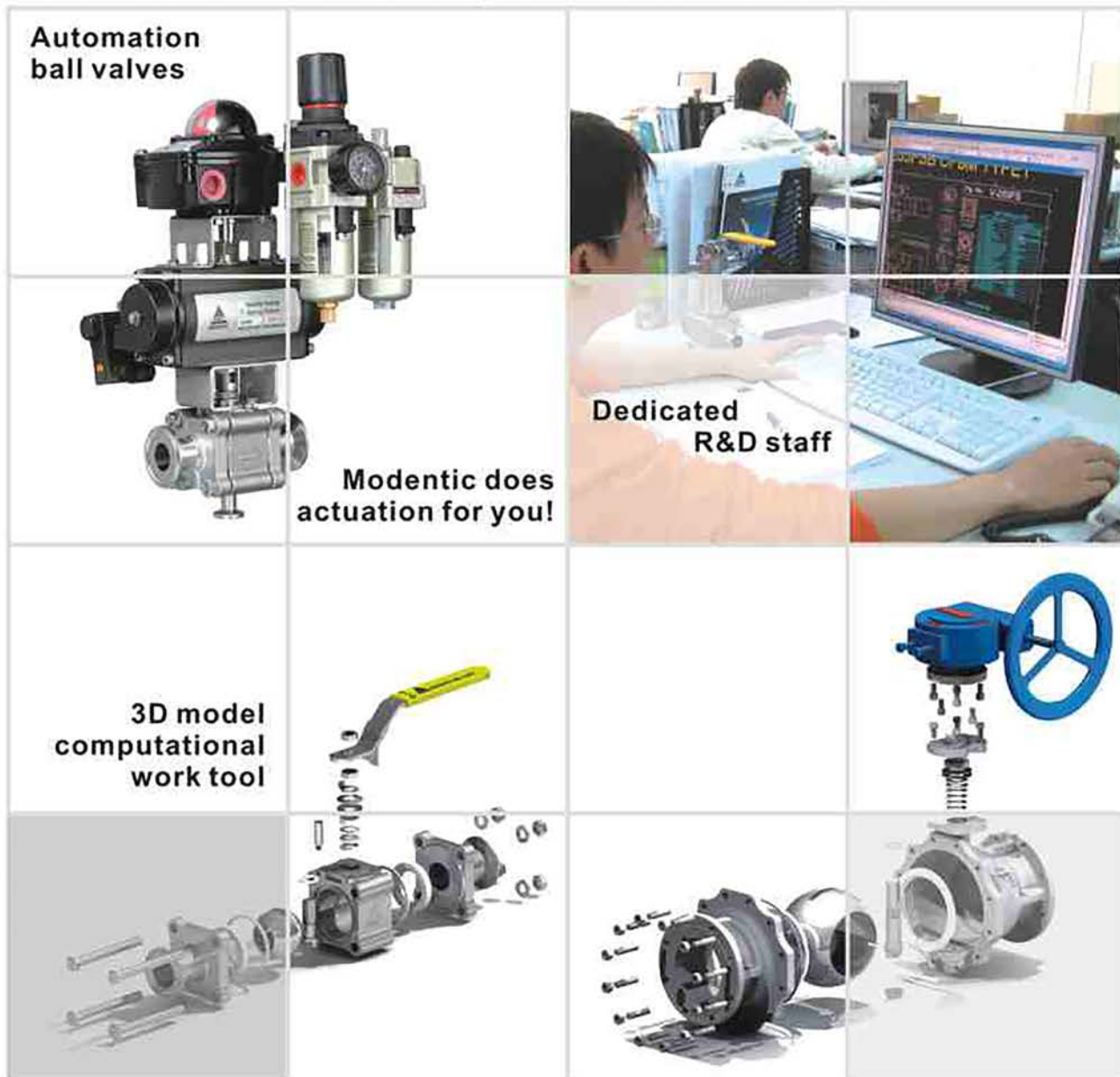
V-058CT



V-058CTS

|                 |   |
|-----------------|---|
| Valve type      | : 2 way tank ball valves<br>Tank sample ball valves |
| Material        | : CF3M  |
| Size            | : 1/2" ~ 4"   |
| End connection: | Clamp End   |

# Modentic works with you to hit the market !



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