

# PROCESS ASSEMBLY

## **G 165**

Extended Point of Use on 50  
Valve Body SO38 extended +  
FT25 + SO25

## **G 170**

Extended Point of Use on 63  
Valve Body SO38 extended +  
FT25 + SO25

## **G 260**

Bottom Point Assembly  
Type C

## **G 300**

2 Functions Dip-Tube  
Sprayball A19

## **G 305**

3 Functions Dip-Tube  
Sprayball Sparger A19

## **G 310**

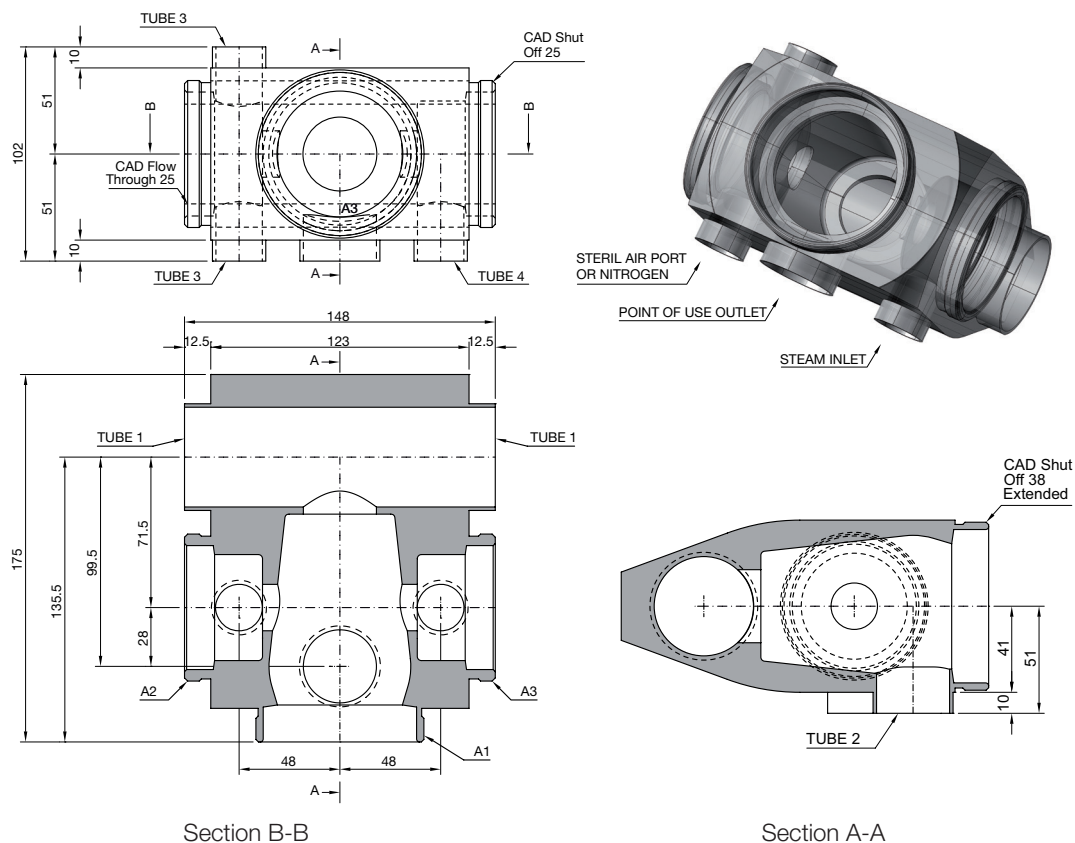
2 Functions Dip-Tube  
Sprayball A25

## **G 315**

3 Functions Dip-Tube  
Sprayball Sparger A25

TECHNICAL INFORMATION \_ CAT. N. YP50 SE38 FT25 ASO25

## EXTENDED POINT OF USE ON 50 VALVE BODY SO38 EXTENDED + FT25 + SO25



Clean and Aseptic Valves of CAD Product Line have simple and safe design, with their full drainability, without asymptotic seal and dead leg, are offering fast cleanability and sterilization practices. They are designed to fulfil stringent demands of CIP-SIP and Production Cycles on Aseptic Processing.

**Extended Point of Use Assembly** for SAFE areas is engineered to fulfil the demand to assembly in a block valve, WFI take off, Pure Steam, Nitrogen, and sampling valves, ready for installation, Point of Use in one tool ready to use, with Zero Dead legs, without Unused Portions and with flush flow seal. Body shape and their internal design offer a very reliable component for Aseptic processing Application. They fulfill all stringent requirements for CIP-SIP activities. Standard version are short butt weld ends but, on demand, may be delivered for orbital welding or with Tri-Clamp connections.

CODE	A1	A2	A3	TUBE 1* mm (inch)	TUBE 2* mm (inch)	TUBE 3* mm (inch)	TUBE 4* mm (inch)
YP50-SE38-FT25- <b>ASO25</b>	A38 Extended M80x1,5	A25 M70x1	A25 M70x1	50,80x1,65 (2,00x0,065)	38,10x1,65 (1,50x0,065)	25,40x1,65 (1,00x0,065)	25,40x1,65 (1,00x0,065)

(\*) US Tube ASTM® A269/270 – ASME BPE

**SPECIFICATION:**

<b>CAD VALVE POSITION</b>		A1	A2	A3				
<b>CAD VALVE SIZE</b>		A38 Extended	A25	A25				
<b>NET VOLUME<sup>(1)</sup></b>	ml	216,64	32,14	32,14				

<sup>(1)</sup> Internal valve cavity only, for each cavity, with diaphragm on site

<b>MATERIAL</b>	1,4435-BN2 - Low Ferrite - Low Sulphur
-----------------	--

**Design Temperature:** -80 to 200 °C (-112 to 392 °F)

**Application Areas:** SAFE

**Design Pressure, Valve Body:** -1 to 10 bar (-14.5 to 145 psi)

**Note:** The applied actuator and diaphragm may have different design temperature and/or pressure limits. The weakest component determines the maximum design temperature and pressure limits, when they are assembled.

**Surface Roughness:** Internal surface (manually polished)  $Ra \leq 0.3\mu m$  (16 $\mu in$ )  
External surface  $Ra \leq 0.5\mu m$  (20 $\mu in$ )

**Surface Treatment:** Available also on EP version - Elettropolishing after manual polished

**Labeling:** Each valve body is labeled for full LOT traceability

**Packaging:** Valve body is sealed in plastic bags and packaged in a closed box with Operating and Maintenance bulletin, Certificate of Conformity and Materials Certification 3.1

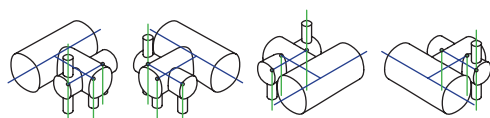
**Quality Control:** Quality Assurance System guarantees the control and traceability of the product.

**Rules Compliances:** CAD valve are on going to be classified for PED Directive 2014/68/EU and fulfill ASME BPE Standards

**Options:** For non-standard CAD Valve body Options, please contact us for further information.

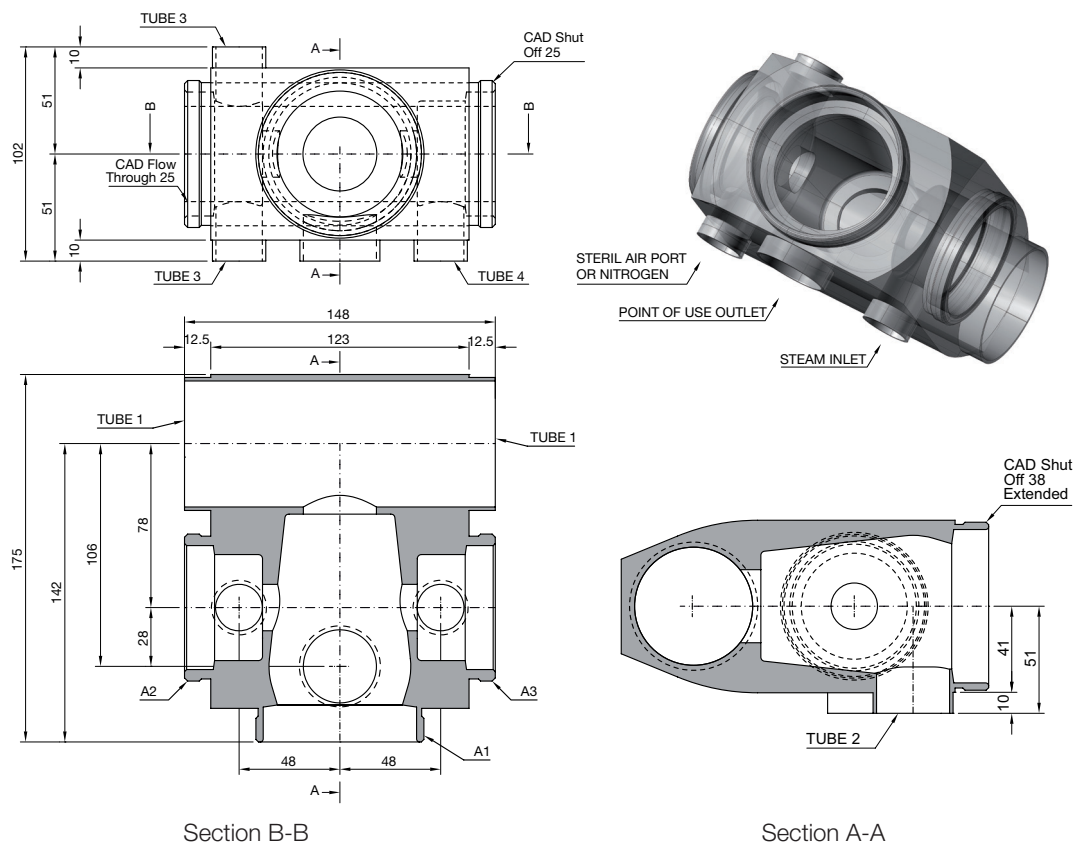
**Orders and Information:** For additional information or to place a order call your nearest Distributor or visit [www.rattiinox.com](http://www.rattiinox.com)

Horizontal Assembly



TECHNICAL INFORMATION \_ CAT. N. YP63 SE38 FT25 ASO25

## EXTENDED POINT OF USE ON 63 VALVE BODY SO38 EXTENDED + FT25 + SO25



Clean and Aseptic Valves of CAD Product Line have simple and safe design, with their full drainability, without asymptotic seal and dead leg, are offering fast cleanability and sterilization practices. They are designed to fulfil stringent demands of CIP-SIP and Production Cycles on Aseptic Processing.

**Extended Point of Use Assembly** for SAFE areas is engineered to fulfil the demand to assembly in a block valve, WFI take off, Pure Steam, Nitrogen, and sampling valves, ready for installation, Point of Use in one tool ready to use, with Zero Dead legs, without Unused Portions and with flush flow seal. Body shape and their internal design offer a very reliable component for Aseptic processing Application. They fulfill all stringent requirements for CIP-SIP activities. Standard version are short butt weld ends but, on demand, may be delivered for orbital welding or with Tri-Clamp connections.

CODE	A1	A2	A3	TUBE 1* mm (inch)	TUBE 2* mm (inch)	TUBE 3* mm (inch)	TUBE 4* mm (inch)
YP63-SE38-FT25-ASO25	A38 Extended M80x1,5	A25 M70x1	A25 M70x1	63,50x1,65 (2,50x0,065)	38,10x1,65 (1,50x0,065)	25,40x1,65 (1,00x0,065)	25,40x1,65 (1,00x0,065)

(\*) US Tube ASTM® A269/270 – ASME BPE

**SPECIFICATION:**

<b>CAD VALVE POSITION</b>		A1	A2	A3				
<b>CAD VALVE SIZE</b>		A38 Extended	A25	A25				
<b>NET VOLUME<sup>(1)</sup></b>	ml	216,64	32,14	32,14				

<sup>(1)</sup> Internal valve cavity only, for each cavity, with diaphragm on site

<b>MATERIAL</b>	1,4435-BN2 - Low Ferrite - Low Sulphur
-----------------	--

**Design Temperature:** -80 to 200 °C (-112 to 392 °F)

**Application Areas:** SAFE

**Design Pressure, Valve Body:** -1 to 10 bar (-14.5 to 145 psi)

**Note:** The applied actuator and diaphragm may have different design temperature and/or pressure limits. The weakest component determines the maximum design temperature and pressure limits, when they are assembled.

**Surface Roughness:** Internal surface (manually polished)  $Ra \leq 0.3\mu m$  (16 $\mu in$ )  
External surface  $Ra \leq 0.5\mu m$  (20 $\mu in$ )

**Surface Treatment:** Available also on EP version - Elettropolishing after manual polished

**Labeling:** Each valve body is labeled for full LOT traceability

**Packaging:** Valve body is sealed in plastic bags and packaged in a closed box with Operating and Maintenance bulletin, Certificate of Conformity and Materials Certification 3.1

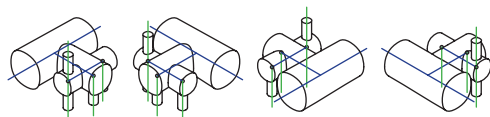
**Quality Control:** Quality Assurance System guarantees the control and traceability of the product.

**Rules Compliances:** CAD valve are on going to be classified for PED Directive 2014/68/EU and fulfill ASME BPE Standards

**Options:** For non-standard CAD Valve body Options, please contact us for further information.

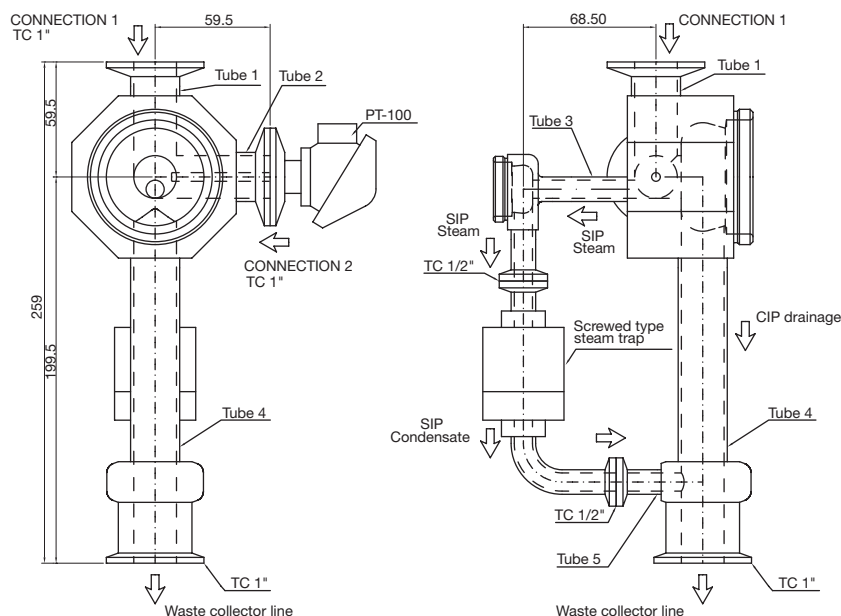
**Orders and Information:** For additional information or to place a order call your nearest Distributor or visit [www.rattiinox.com](http://www.rattiinox.com)

Horizontal Assembly



TECHNICAL INFORMATION \_ CAT. N. YC25 SOCL SOCL A2512

## BOTTOM POINT ASSEMBLY TYPE C



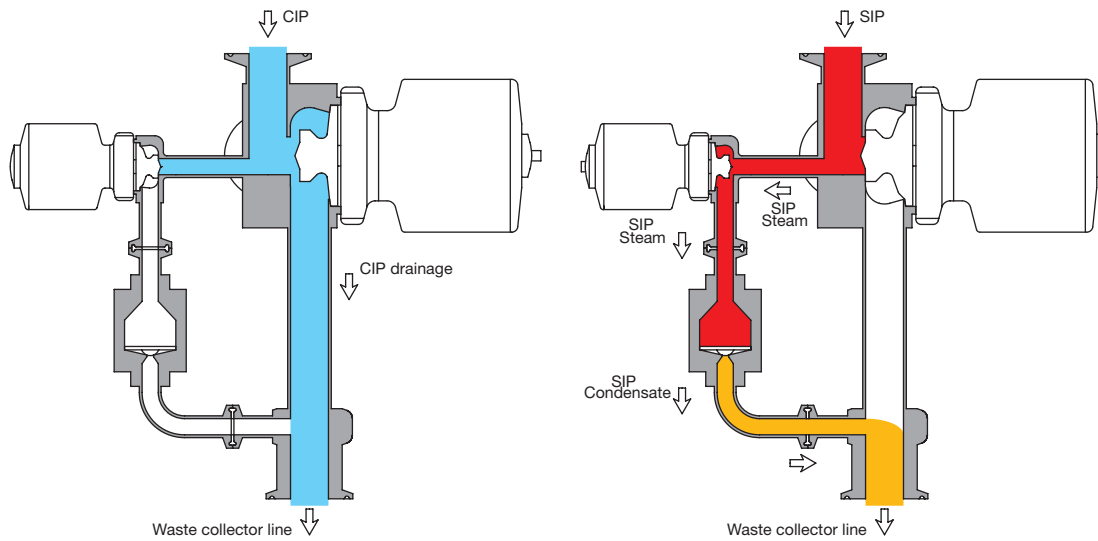
Clean and Aseptic Valves of CAD Product Line have simple and safe design, with their full drainability, without asymptotic seal and dead leg, are offering fast cleanability and sterilization practices. They are designed to fulfil stringent demands of CIP-SIP and Production Cycles on Aseptic Processing.

**Bottom Point Assembly** for SAFE areas engineered to give the best solution for the typical point of CIP and SIP drainages management in one tool ready to use. Body shape and their internal design offer a very reliable component for Aseptic Processing Application. Developed for screwed type condensate trap. Standard version made with Tri-Clamp connections. PT-100 on request.

NOMINAL DIMENSION	A1	A2	TUBE 1* mm (inch)	TUBE 2* mm (inch)	TUBE 3* mm (inch)	TUBE 4* mm (inch)	TUBE 5* mm (inch)
YC25-SOCL-SOCL-A2512	A25-M70x1	A12-M34x1	25,40x1,65 (1,00x0,065)	25,40x1,65 (1,00x0,065)	12,70x1,65 (0,50x0,065)	25,40x1,65 (1,00x0,065)	12,70x1,65 (0,50x0,065)

(\*) US Tube ASTM® A269/270 – ASME BPE

**SPECIFICATION:**



<b>CAD VALVE POSITION</b>	A1	A2					
<b>CAD VALVE SIZE</b>	A25	A12					

**Design Temperature:** -80 to 200 °C (-112 to 392 °F)

**Application Areas:** SAFE

**Design Pressure, Valve Body:** -1 to 10 bar (-14.5 to 145 psi)

**Note:** The applied actuator and diaphragm may have different design temperature and/or pressure limits. The weakest component determines the maximum design temperature and pressure limits, when they are assembled.

**Surface Roughness:** Internal surface (manually polished)  $Ra \leq 0.3\mu m$  (16 $\mu in$ )  
External surface  $Ra \leq 0.5\mu m$  (20 $\mu in$ )

**Surface Treatment:** Available also on EP version - Elettropolishing after manual polished

**Labeling:** Each valve body is labeled for full LOT traceability

**Packaging:** Valve body is sealed in plastic bags and packaged in a closed box with Operating and Maintenance bulletin, Certificate of Conformity and Materials Certification 3.1

**Quality Control:** Quality Assurance System guarantees the control and traceability of the product.

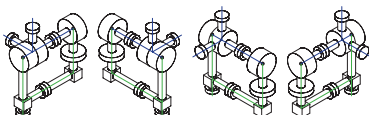
**Rules Compliances:** CAD valve are on going to be classified for PED Directive 2014/68/EU and fulfill ASME BPE Standards

**Standard design:** Shut Off bodies are available also to 180°, tangential outlet Left or Right

**Options:** For non-standard CAD Valve body Options, please contact us for further information.

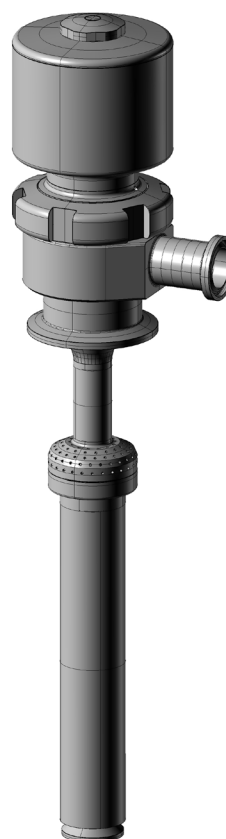
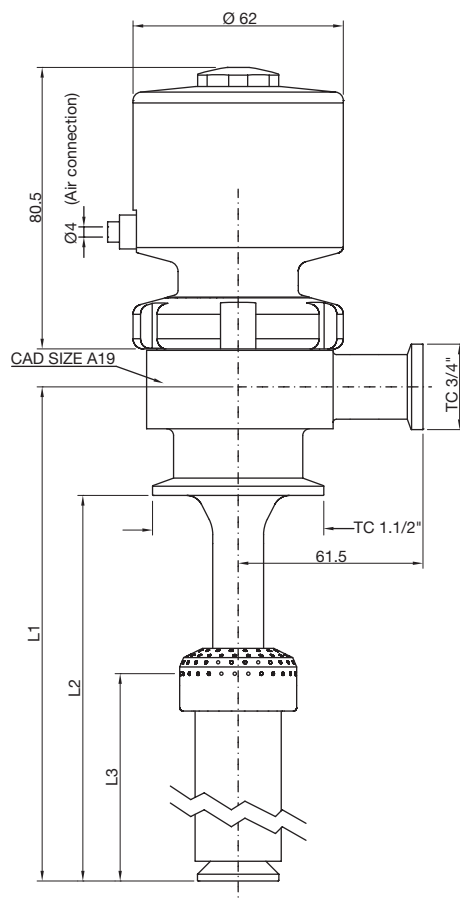
**Orders and Information:** For additional information or to place a order call your nearest Distributor or visit [www.rattiinox.com](http://www.rattiinox.com)

Vertical Assembly



TECHNICAL INFORMATION \_ CAT. N. YDTB 2FNL 0000 A1900

## 2 FUNCTIONS DIP-TUBE SPRAYBALL A19



Clean and Aseptic Valves of CAD Product Line have simple and safe design, with their full drainability, without asymptotic seal and dead leg, are offering fast cleanability and sterilization practices. They are designed to fulfil stringent demands of CIP-SIP and Production Cycles on Aseptic Processing.

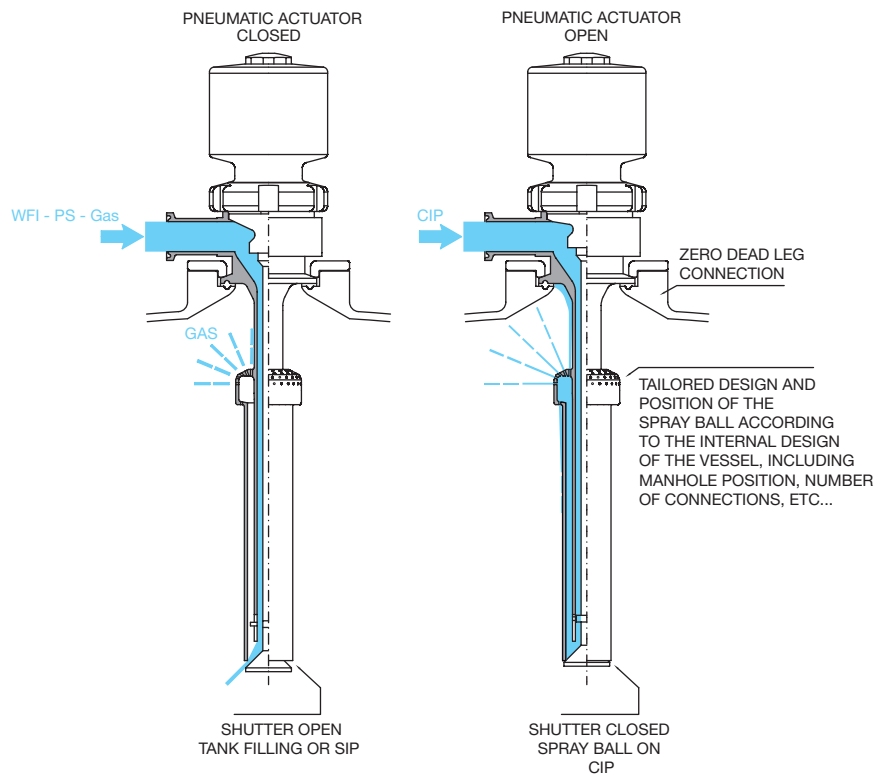
**2 Functions Dip-Tube Sprayball A19** for SAFE areas engineered to give the best solution for the typical needs on the top of the process vessel offering the integration of a diptube with a spray ball in one tool ready to use for: filling, CIP-SIP activities. They offer also reduction of nozzles number on top vessel as additional benefit. Body shape and their internal design offer a very reliable component for Aseptic Processing Application. Standard version made with Tri-Clamp connections.

NOMINAL DIMENSION	CAD SIZE	L1	L2	L3
YDTB-2FNL-0000-A1900	A19	Tailored		

(\*) US Tube ASTM® A269/270 – ASME BPE



**SPECIFICATION:**



MATERIAL	AISI 316L - 1.4404 & PTFE USP Class VI - 121°C
----------	--

**Design Temperature:** -80 to 200 °C (-112 to 392 °F)

**Application Areas:** SAFE

**Design Pressure, Valve Body:** -1 to 10 bar (-14.5 to 145 psi)

**Note:** The applied actuator and diaphragm may have different design temperature and/or pressure limits. The weakest component determines the maximum design temperature and pressure limits, when they are assembled.

**Surface Roughness:** Internal surface (manually polished)  $Ra \leq 0.3\mu m$  (16 $\mu in$ )  
External surface  $Ra \leq 0.5\mu m$  (20 $\mu in$ )

**Surface Treatment:** Available also on EP version - Elettropolishing after manual polished

**Labeling:** Each valve body is labeled for full LOT traceability

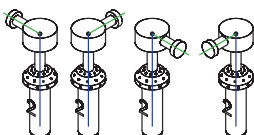
**Packaging:** Valve body is sealed in plastic bags and packaged in a closed box with Operating and Maintenance bulletin, Certificate of Conformity and Materials Certification 3.1

**Quality Control:** Quality Assurance System guarantees the control and traceability of the product.

**Rules Compliances:** CAD valve are on going to be classified for PED Directive 2014/68/EU and fulfill ASME BPE Standards

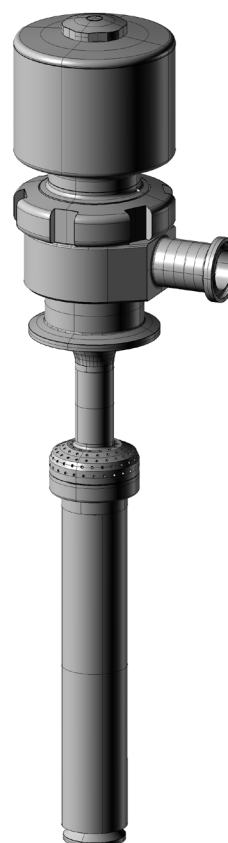
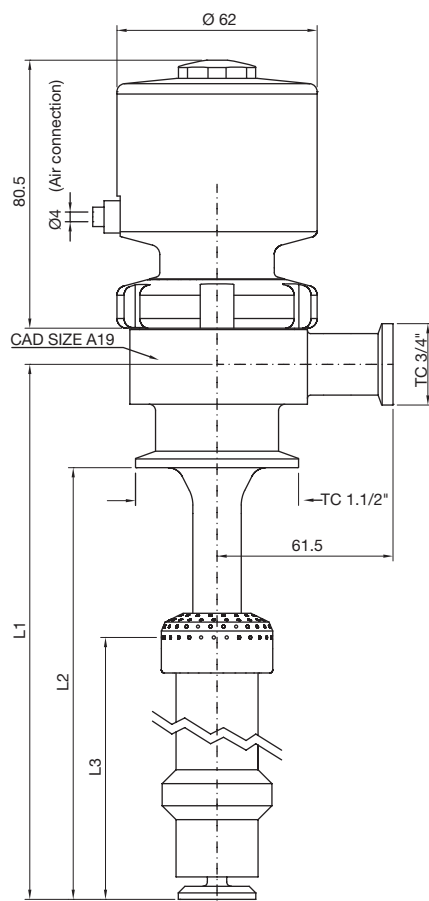
**Orders and Information:** For additional information or to place a order call your nearest Distributor or visit [www.rattiinox.com](http://www.rattiinox.com)

Vertical Assembly



TECHNICAL INFORMATION \_ CAT. N. YDTB 3FNL 0000 A1900

## 3 FUNCTIONS DIP-TUBE SPRAYBALL SPARGER A19



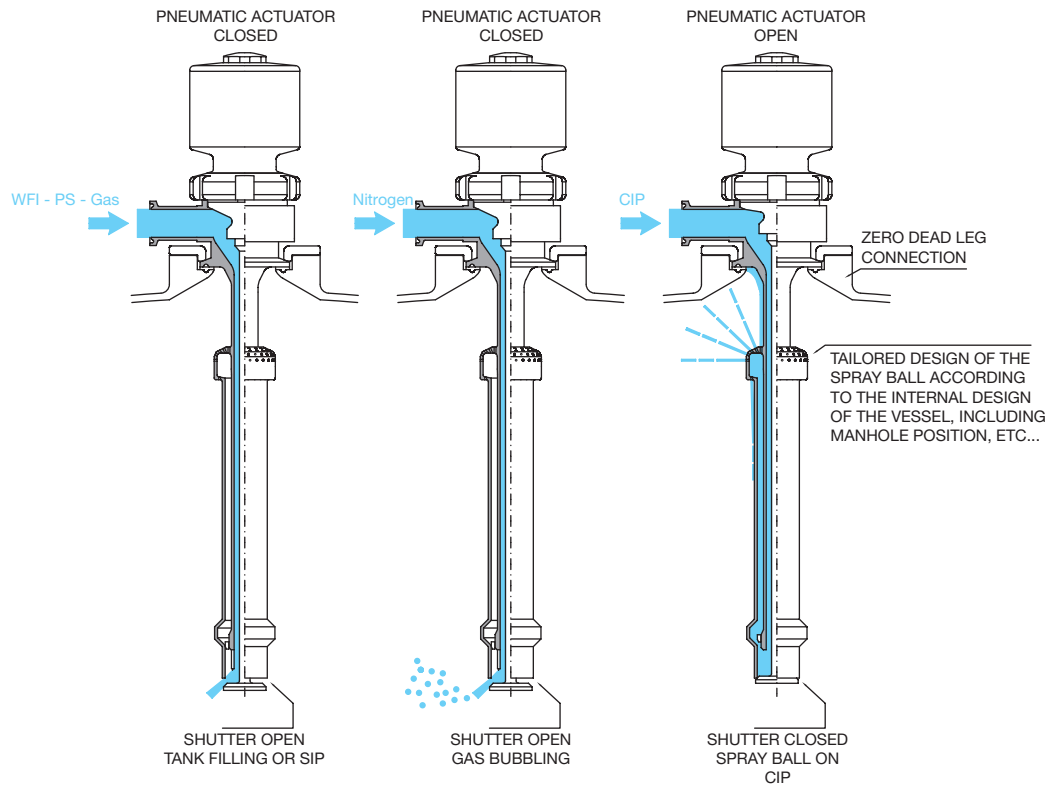
Clean and Aseptic Valves of CAD Product Line have simple and safe design, with their full drainability, without asymptotic seal and dead leg, are offering fast cleanability and sterilization practices. They are designed to fulfil stringent demands of CIP-SIP and Production Cycles on Aseptic Processing.

**3 Functions Dip-Tube Sprayball Sparger A19** for SAFE areas engineered to give the best solution for the typical needs on the top of the process vessel offering reduction on nozzles numbers by the integration of a diptube with a spray ball and sparger in one tool ready to use for: filling, CIP-SIP and bubbling activities . They offer also reduction of nozzles number on top vessel as additional benefit. Body shape and their internal design offer a very reliable component for Aseptic Processing Application. Standard version made with Tri-Clamp connections.

NOMINAL DIMENSION	CAD SIZE	L1	L2	L3
YDTB-3FNL-0000-A1900	A19	Tailored		

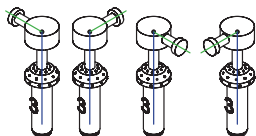
(\*) US Tube ASTM® A269/270 – ASME BPE

**SPECIFICATION:**



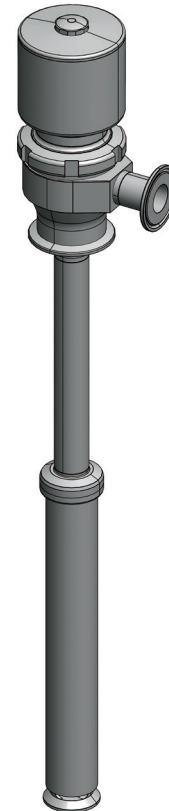
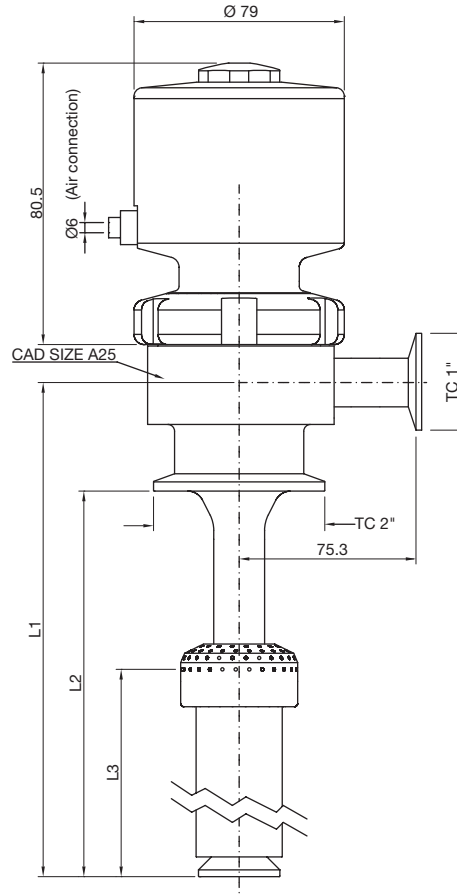
MATERIAL	AISI 316L - 1.4404 & PTFE USP Class VI - 121°C
<b>Design Temperature:</b>	-80 to 200 °C (-112 to 392 °F)
<b>Application Areas:</b>	SAFE
<b>Design Pressure, Valve Body:</b>	-1 to 10 bar (-14.5 to 145 psi)
<b>Note:</b>	The applied actuator and diaphragm may have different design temperature and/or pressure limits. The weakest component determines the maximum design temperature and pressure limits, when they are assembled.
<b>Surface Roughness:</b>	Internal surface (manually polished) $Ra \leq 0.3\mu m$ (16 $\mu in$ ) External surface $Ra \leq 0.5\mu m$ (20 $\mu in$ )
<b>Surface Treatment:</b>	Available also on EP version - Elettropolishing after manual polished
<b>Labeling:</b>	Each valve body is labeled for full LOT traceability
<b>Packaging:</b>	Valve body is sealed in plastic bags and packaged in a closed box with Operating and Maintenance bulletin, Certificate of Conformity and Materials Certification 3.1
<b>Quality Control:</b>	Quality Assurance System guarantees the control and traceability of the product.
<b>Rules Compliances:</b>	CAD valve are on going to be classified for PED Directive 2014/68/EU and fulfill ASME BPE Standards
<b>Orders and Information:</b>	For additional information or to place a order call your nearest Distributor or visit <a href="http://www.rattiinox.com">www.rattiinox.com</a>

Vertical Assembly



TECHNICAL INFORMATION \_ CAT. N. YDTB 2FNL 0000 A2500

## 2 FUNCTIONS DIP-TUBE SPRAYBALL A25



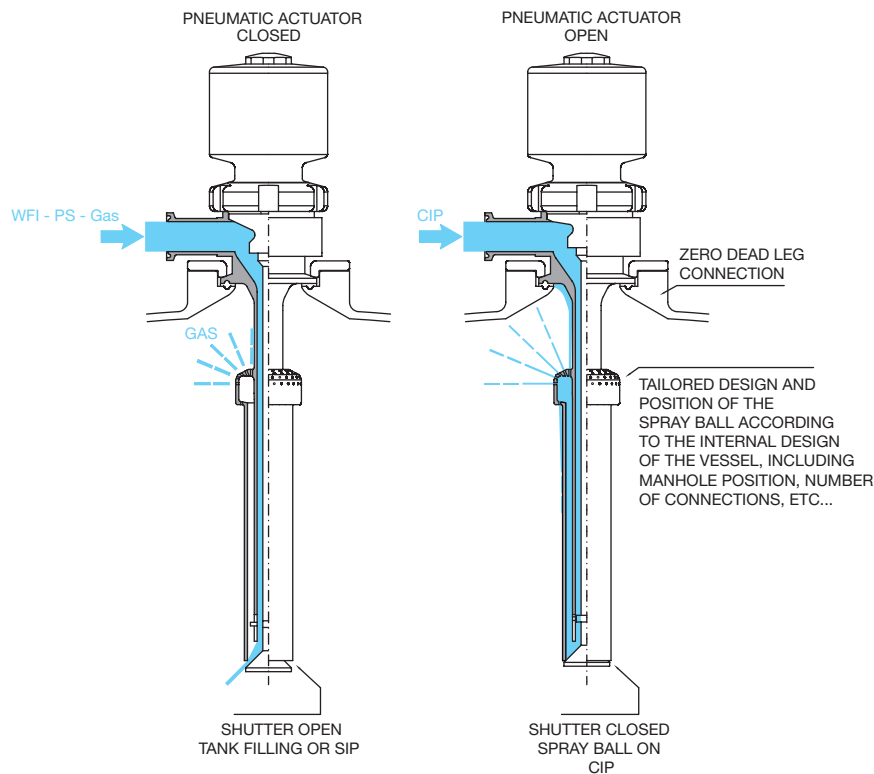
Clean and Aseptic Valves of CAD Product Line have simple and safe design, with their full drainability, without asymptotic seal and dead leg, are offering fast cleanability and sterilization practices. They are designed to fulfil stringent demands of CIP-SIP and Production Cycles on Aseptic Processing.

**2 Functions Dip-Tube Sprayball A25** for SAFE areas engineered to give the best solution for the typical needs on the top of the process vessel offering the integration of a diptube with a spray ball in one tool ready to use for: filling, CIP-SIP activities. They offer also reduction of nozzles number on top vessel as additional benefit. Body shape and their internal design offer a very reliable component for Aseptic Processing Application. Standard version made with Tri-Clamp connections.

NOMINAL DIMENSION	CAD SIZE	L1	L2	L3
YDTB-2FNL-0000-A2500	A25	Tailored		

(\*) US Tube ASTM® A269/270 – ASME BPE

**SPECIFICATION:**



MATERIAL	AISI 316L - 1.4404 & PTFE USP Class VI - 121°C
----------	--

**Design Temperature:** -80 to 200 °C (-112 to 392 °F)

**Application Areas:** SAFE

**Design Pressure, Valve Body:** -1 to 10 bar (-14.5 to 145 psi)

**Note:** The applied actuator and diaphragm may have different design temperature and/or pressure limits. The weakest component determines the maximum design temperature and pressure limits, when they are assembled.

**Surface Roughness:** Internal surface (manually polished)  $Ra \leq 0.3\mu m$  (16 $\mu in$ )  
External surface  $Ra \leq 0.5\mu m$  (20 $\mu in$ )

**Surface Treatment:** Available also on EP version - Elettropolishing after manual polished

**Labeling:** Each valve body is labeled for full LOT traceability

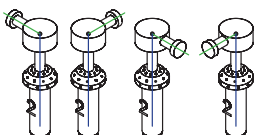
**Packaging:** Valve body is sealed in plastic bags and packaged in a closed box with Operating and Maintenance bulletin, Certificate of Conformity and Materials Certification 3.1

**Quality Control:** Quality Assurance System guarantees the control and traceability of the product.

**Rules Compliances:** CAD valve are on going to be classified for PED Directive 2014/68/EU and fulfill ASME BPE Standards

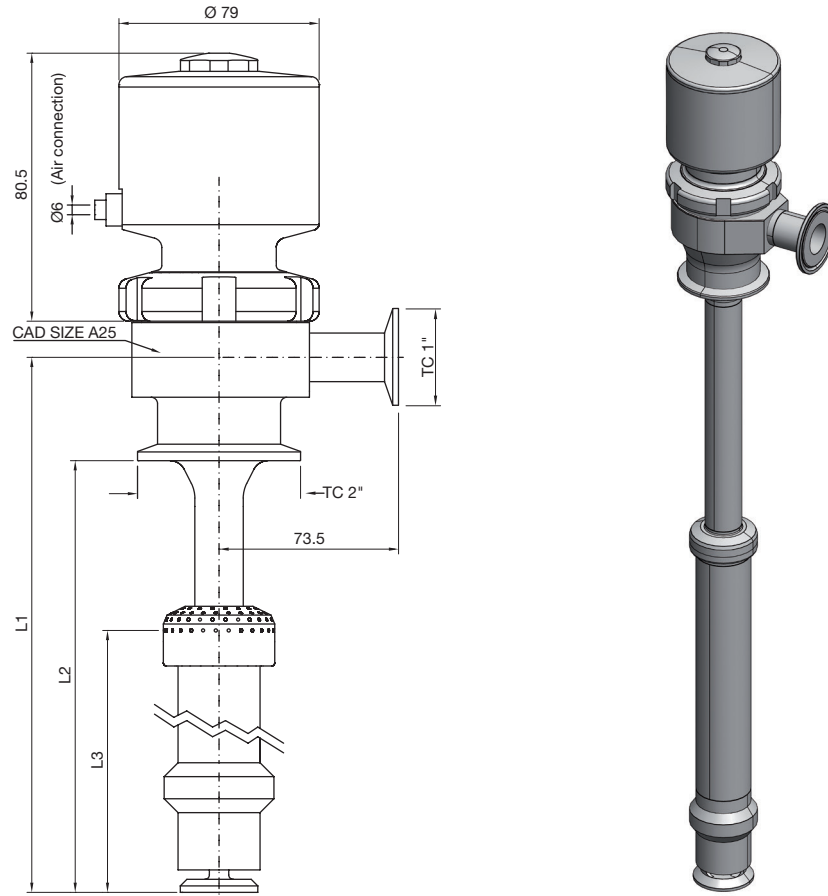
**Orders and Information:** For additional information or to place a order call your nearest Distributor or visit [www.rattiinox.com](http://www.rattiinox.com)

Vertical Assembly



TECHNICAL INFORMATION \_ CAT. N. YDTB 3FNL 0000 A2500

## 3 FUNCTIONS DIP-TUBE SPRAYBALL SPARGER A25



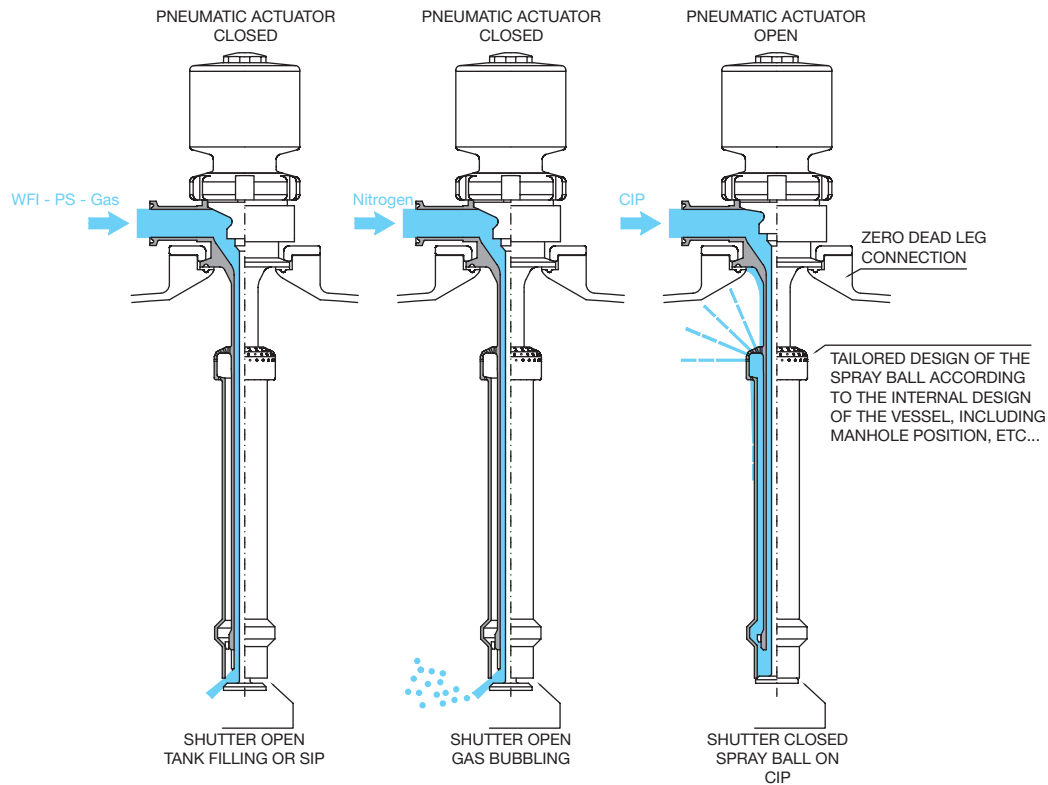
Clean and Aseptic Valves of CAD Product Line have simple and safe design, with their full drainability, without asymptotic seal and dead leg, are offering fast cleanability and sterilization practices. They are designed to fulfil stringent demands of CIP-SIP and Production Cycles on Aseptic Processing.

**3 Functions Dip-Tube Sprayball Sparger A25** for SAFE areas engineered to give the best solution for the typical needs on the top of the process vessel offering reduction on nozzles numbers by the integration of a diptube with a spray ball and sparger in one tool ready to use for: filling, CIP-SIP and bubbling activities . They offer also reduction of nozzles number on top vessel as additional benefit. Body shape and their internal design offer a very reliable component for Aseptic Processing Application. Standard version made with Tri-Clamp connections.

NOMINAL DIMENSION	CAD SIZE	L1	L2	L3
YDTB-3FNL-0000-A2500	A25	Tailored		

(\*) US Tube ASTM® A269/270 – ASME BPE

**SPECIFICATION:**



MATERIAL	AISI 316L - 1.4404 & PTFE USP Class VI - 121°C
<b>Design Temperature:</b>	-80 to 200 °C (-112 to 392 °F)
<b>Application Areas:</b>	SAFE
<b>Design Pressure, Valve Body:</b>	-1 to 10 bar (-14.5 to 145 psi)
<b>Note:</b>	The applied actuator and diaphragm may have different design temperature and/or pressure limits. The weakest component determines the maximum design temperature and pressure limits, when they are assembled.
<b>Surface Roughness:</b>	Internal surface (manually polished) $Ra \leq 0.3\mu m$ (16 $\mu in$ ) External surface $Ra \leq 0.5\mu m$ (20 $\mu in$ )
<b>Surface Treatment:</b>	Available also on EP version - Elettropolishing after manual polished
<b>Labeling:</b>	Each valve body is labeled for full LOT traceability
<b>Packaging:</b>	Valve body is sealed in plastic bags and packaged in a closed box with Operating and Maintenance bulletin, Certificate of Conformity and Materials Certification 3.1
<b>Quality Control:</b>	Quality Assurance System guarantees the control and traceability of the product.
<b>Rules Compliances:</b>	CAD valve are on going to be classified for PED Directive 2014/68/EU and fulfill ASME BPE Standards
<b>Orders and Information:</b>	For additional information or to place a order call your nearest Distributor or visit <a href="http://www.rattiinox.com">www.rattiinox.com</a>

Vertical Assembly

