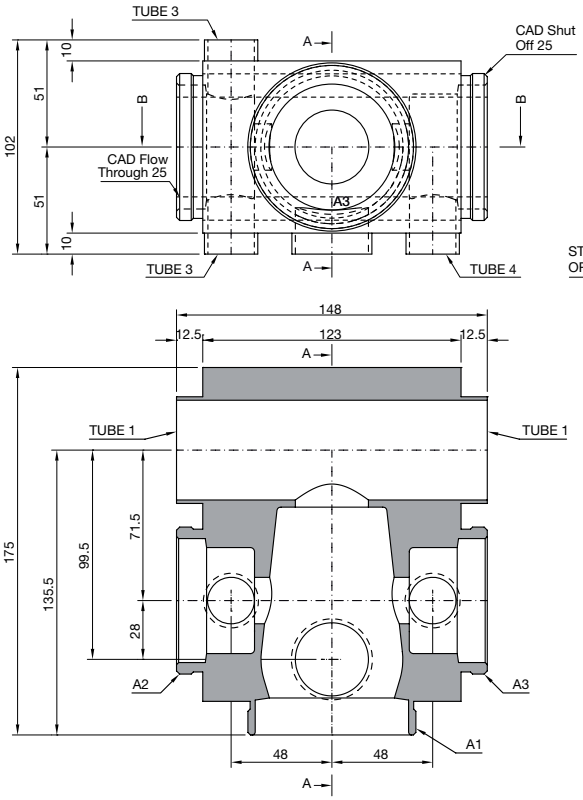
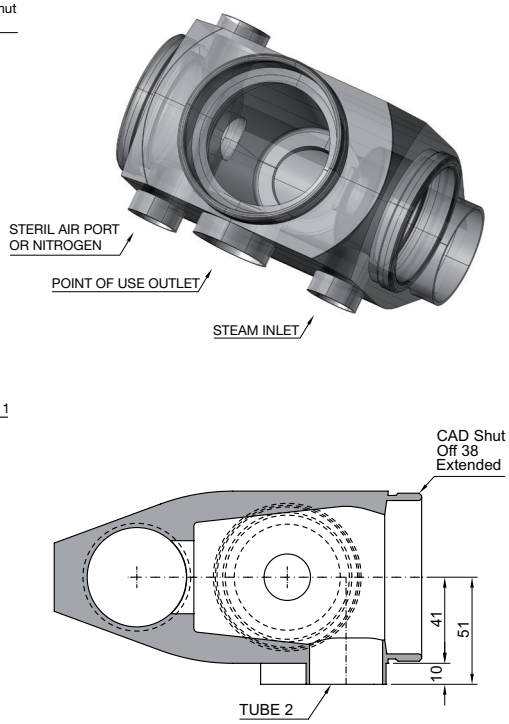
PROCESS ASSEMBLY

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

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



Section B-B



Section A-A

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-**ASO25**	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

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RATTIINOX
ASEPTIC EQUIPMENT - DESIGN & SUPPLIER

CAD
CLEAN & ASEPTIC DESIGN

SPECIFICATION:

CAD VALVE POSITION	A1	A2	A3				
CAD VALVE SIZE	A38 Extended	A25	A25				

NET VOLUME[1]	ml	216,64	32,14	32,14				

[1] Internal valve cavity only, for each cavity, with diaphragm on site

MATERIAL	1,4435-BN2 - Low Ferrite - Low Sulphur

Design Temperature: -80 to 200 ºC (-112 to 392 ºF)

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 ≤ 0.3µm (16µin)
External surface Ra ≤ 0.5µm (20µin)

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

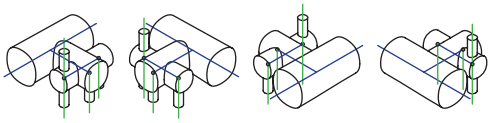
Quality Control: Quality Assurance System guarantees the control and traceability of the product.

Rules Compliances: CAD valve are on going to be classified for PED Directive 97/23/EC 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

Horizontal Assembly



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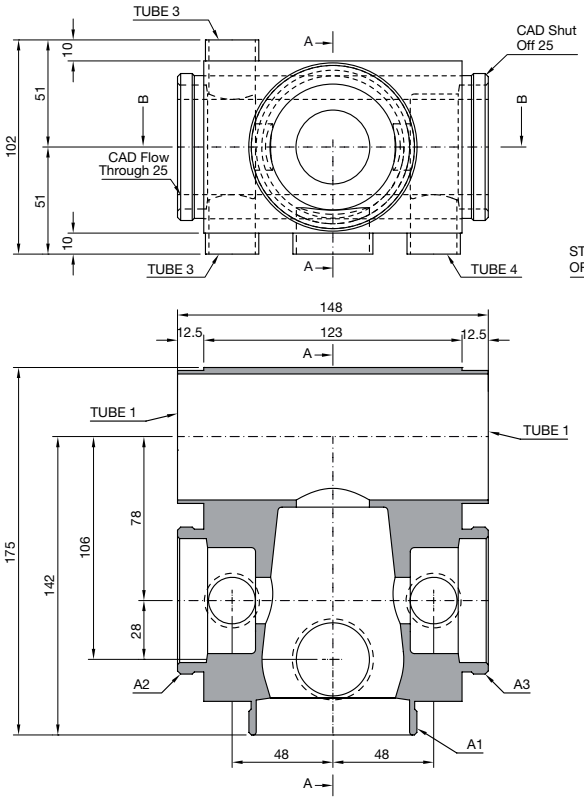
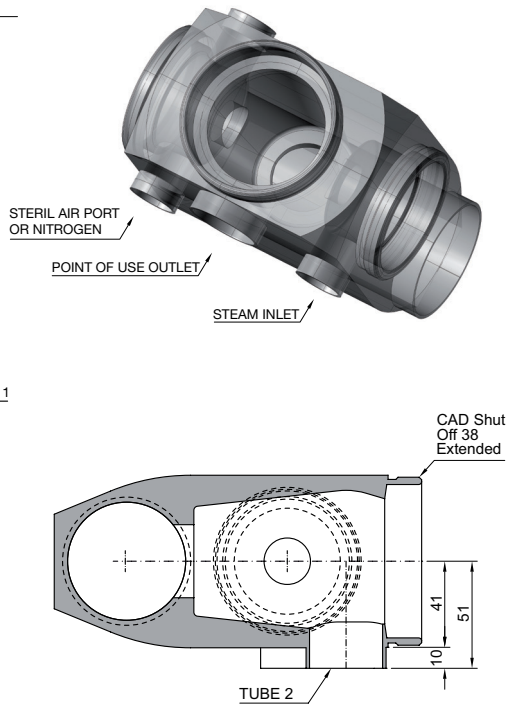
TECHNICAL INFORMATION _ **CAT. N. YP63 SE38 FT25 ASO25**

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



Section B-B



Section A-A

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

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RATTIINOX
ASEPTIC EQUIPMENT - DESIGN & SUPPLIER

CAD
CLEAN & ASEPTIC DESIGN

SPECIFICATION:

CAD VALVE POSITION	A1	A2	A3				
CAD VALVE SIZE	A38 Extended	A25	A25				

NET VOLUME[1]	ml	216,64	32,14	32,14				

[1] Internal valve cavity only, for each cavity, with diaphragm on site

MATERIAL	1,4435-BN2 - Low Ferrite - Low Sulphur

Design Temperature: -80 to 200 ºC (-112 to 392 ºF)

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 ≤ 0.3µm (16µin)
External surface Ra ≤ 0.5µm (20µin)

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

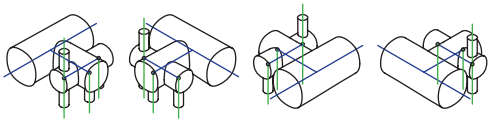
Quality Control: Quality Assurance System guarantees the control and traceability of the product.

Rules Compliances: CAD valve are on going to be classified for PED Directive 97/23/EC 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

Horizontal Assembly



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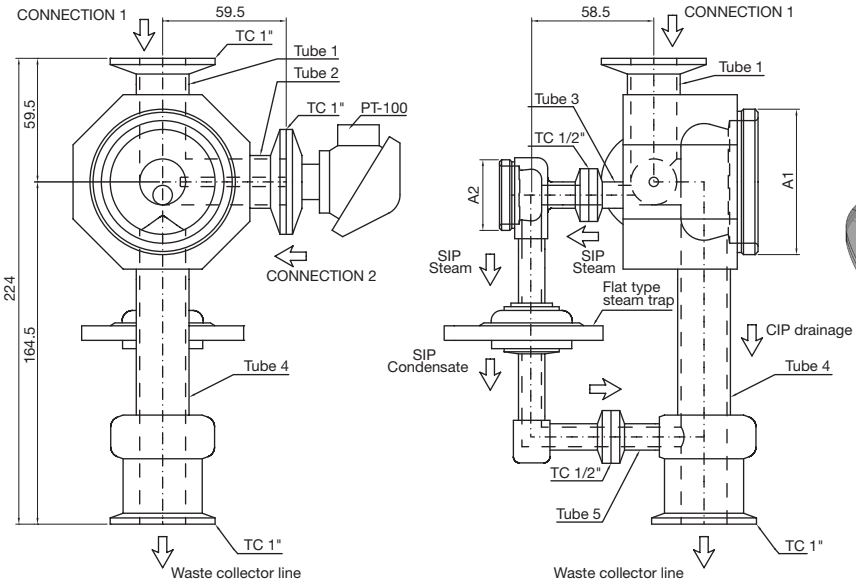
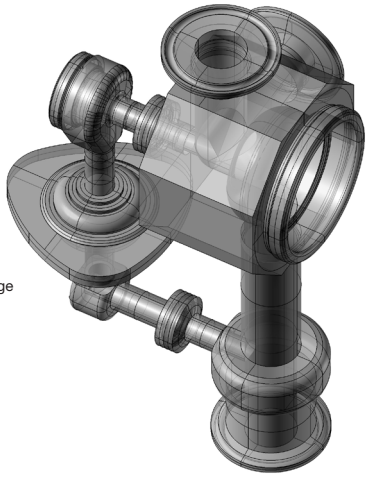
TECHNICAL INFORMATION _ **CAT. N. YB25 SOCL SOCL A2512**

BOTTOM POINT ASSEMBLY TYPE B





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 tipical 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 flat 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)
YB25-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

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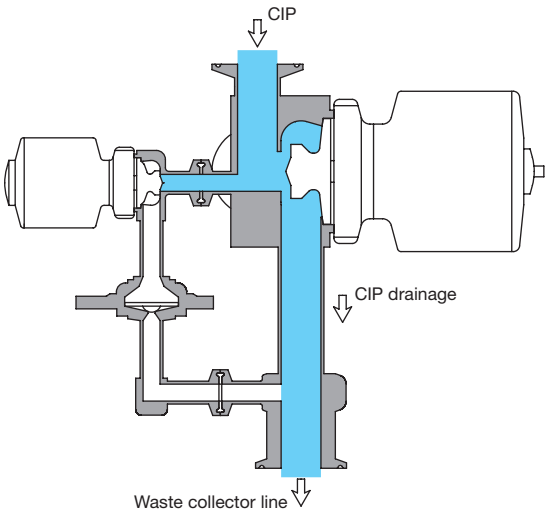
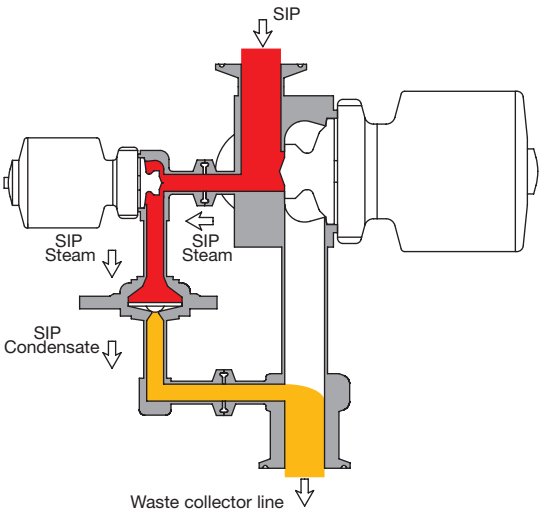
RATTIINOX
ASEPTIC EQUIPMENT - DESIGN & SUPPLIER

CAD
CLEAN & ASEPTIC DESIGN

SPECIFICATION:





CAD VALVE POSITION	A1	A2					
CAD VALVE SIZE	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 ≤ 0.3µm (16µin)
External surface Ra ≤ 0.5µm (20µin)

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.

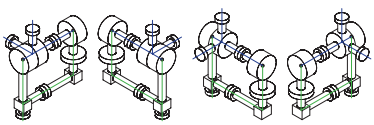
Rules Compliances: CAD valve are on going to be classified for PED Directive 97/23/EC and fulfill ASME BPE Standards

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

Vertical Assembly



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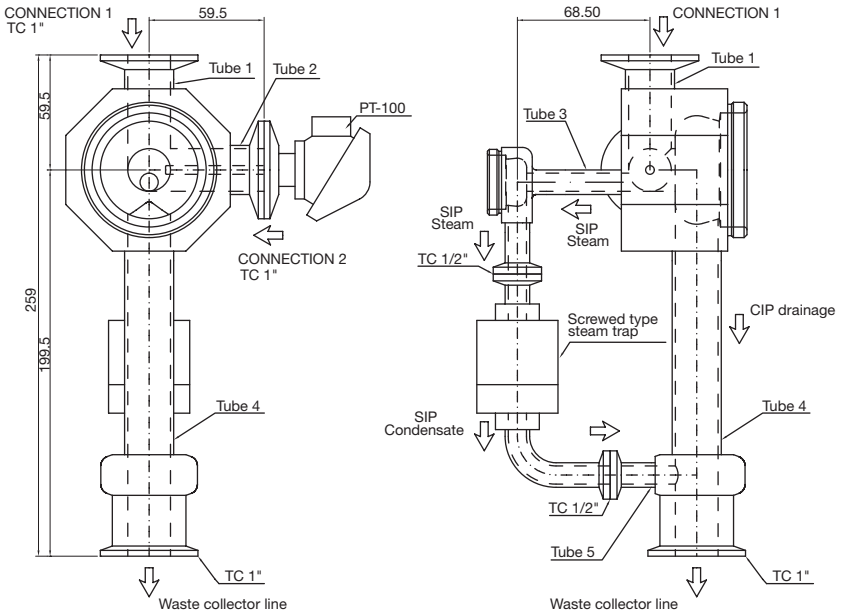
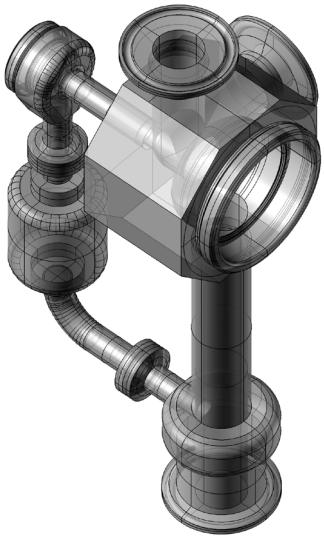
TECHNICAL INFORMATION _ **CAT. N. YC25 SOCL SOCL A2512**

BOTTOM POINT ASSEMBLY TYPE C





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Bottom Point Assembly for SAFE areas engineered to give the best solution for the tipical 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

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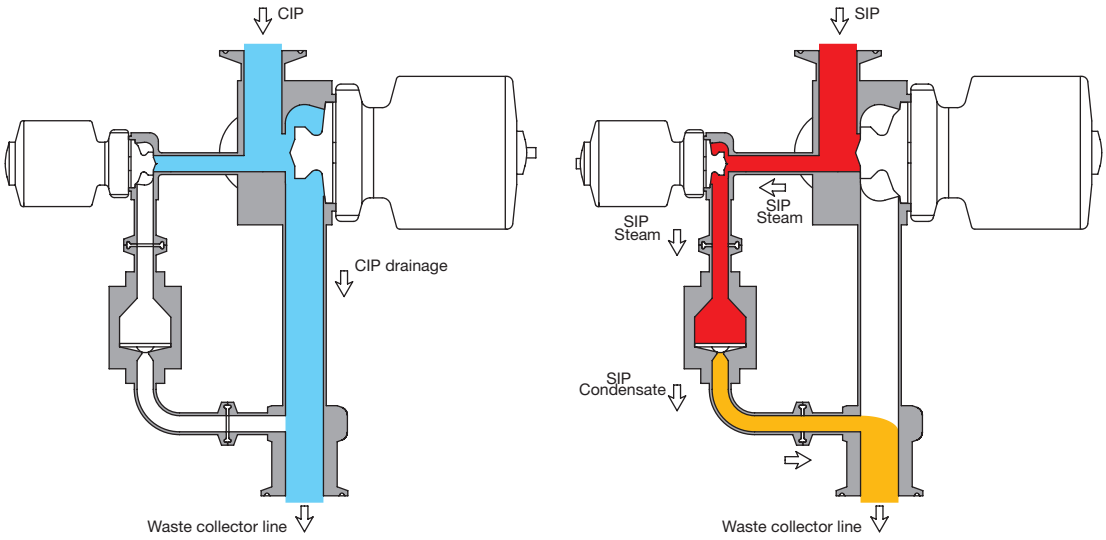
RATTIINOX
ASEPTIC EQUIPMENT - DESIGN & SUPPLIER

CAD
CLEAN & ASEPTIC DESIGN

SPECIFICATION:



CAD VALVE POSITION	A1	A2					
CAD VALVE SIZE	A25	A12					

Design Temperature: -80 to 200 ºC (-112 to 392 ºF)

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 ≤ 0.3µm (16µin)
External surface Ra ≤ 0.5µm (20µin)

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.

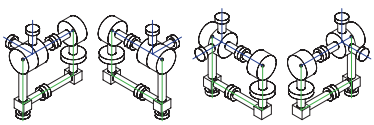
Rules Compliances: CAD valve are on going to be classified for PED Directive 97/23/EC and fulfill ASME BPE Standards

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

Vertical Assembly



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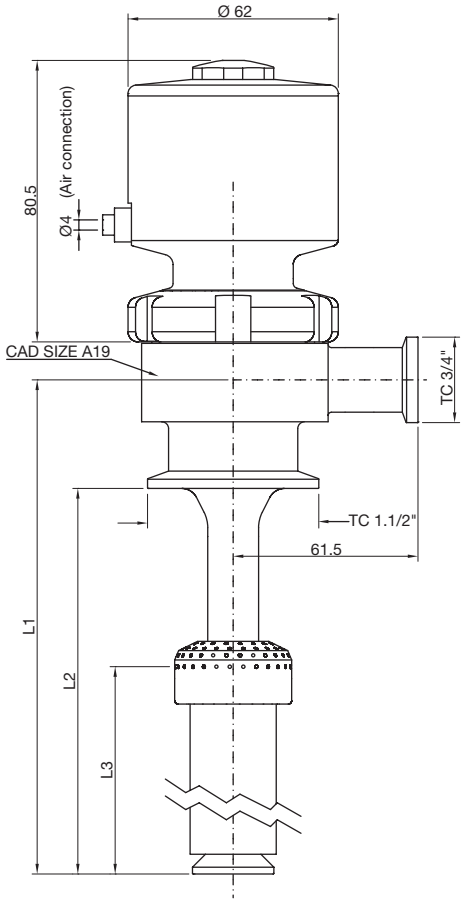
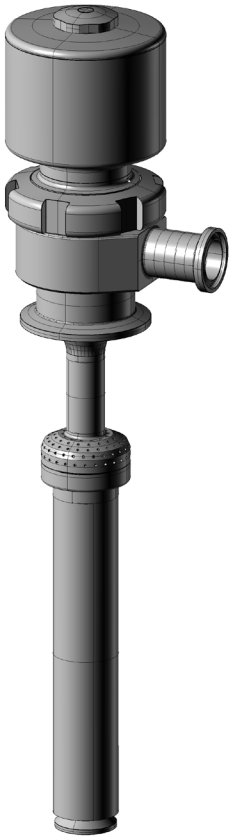
TECHNICAL INFORMATION _ **CAT. N. YDTB 2FNL 0000 A1900**

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 tipical 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

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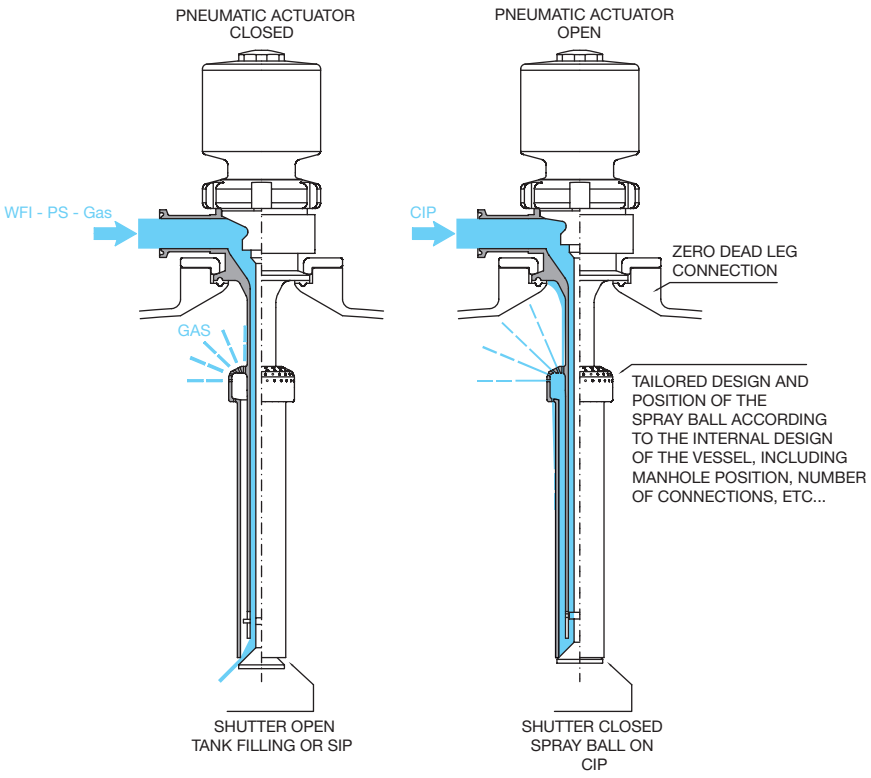
SPECIFICATION:



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 ≤ 0.3µm (16µin)
External surface Ra ≤ 0.5µm (20µin)

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

Labeling: Each valve body is labeled for full LOT traceability

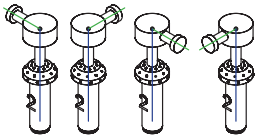
Packaging: Valve body is sealed in plastic bags and packaged in a closed box with Operating and Maintenance bulletin, Certificate of Conformity and Materials Certification 3.1

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 97/23/EC 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

Vertical Assembly



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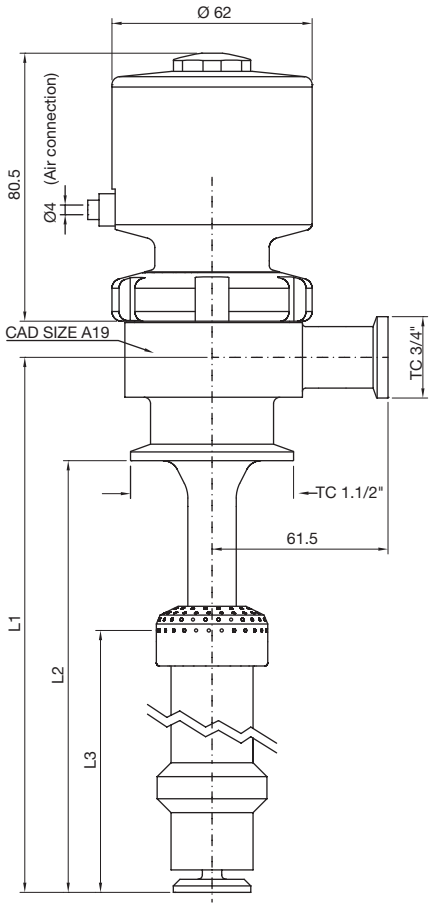
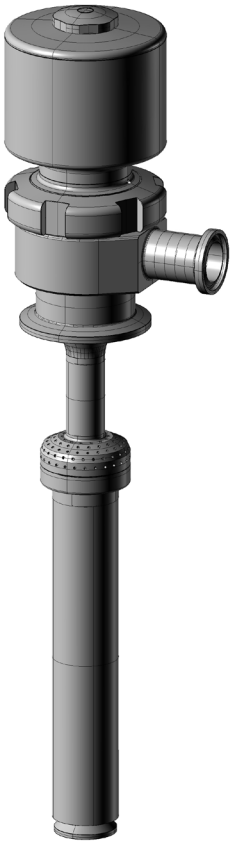
TECHNICAL INFORMATION _ **CAT. N. YDTB 3FNL 0000 A1900**

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 tipical 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

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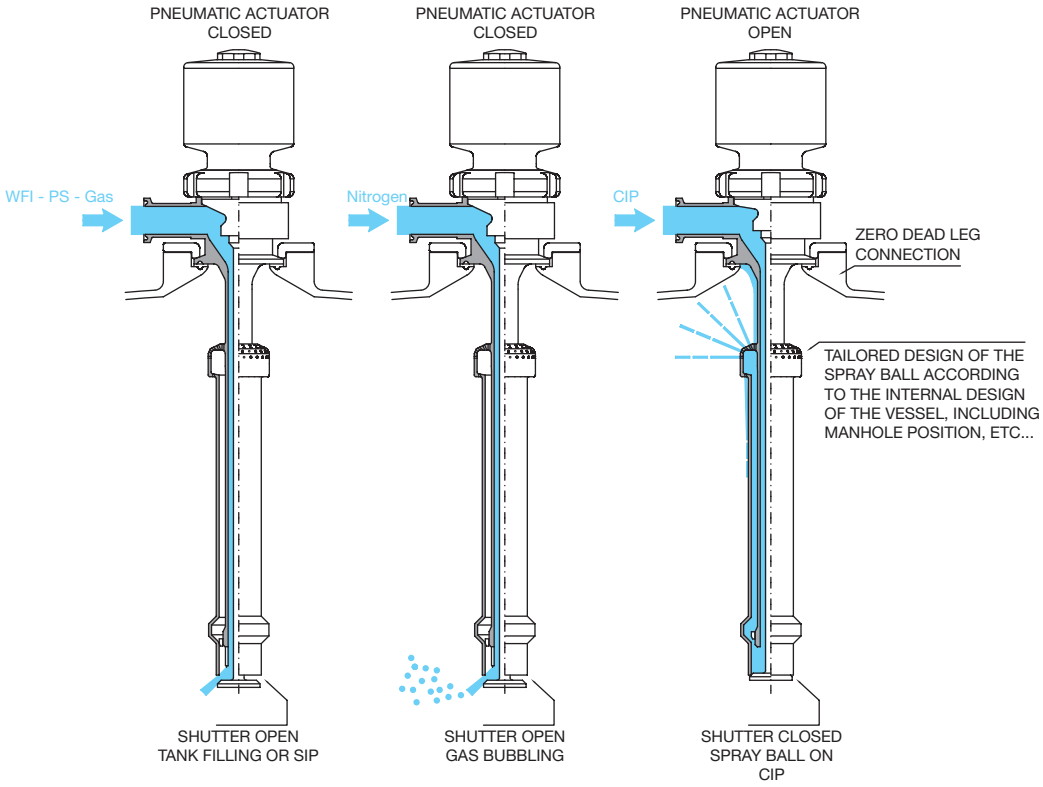
RATTIINOX
ASEPTIC EQUIPMENT - DESIGN & SUPPLIER

CAD
CLEAN & ASEPTIC DESIGN

SPECIFICATION:



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

Design Temperature: -80 to 200 ºC (-112 to 392 ºF)

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 ≤ 0.3µm (16µin)
External surface Ra ≤ 0.5µm (20µin)

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

Labeling: Each valve body is labeled for full LOT traceability

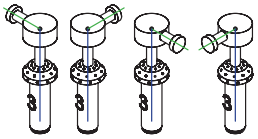
Packaging: Valve body is sealed in plastic bags and packaged in a closed box with Operating and Maintenance bulletin, Certificate of Conformity and Materials Certification 3.1

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 97/23/EC 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

Vertical Assembly



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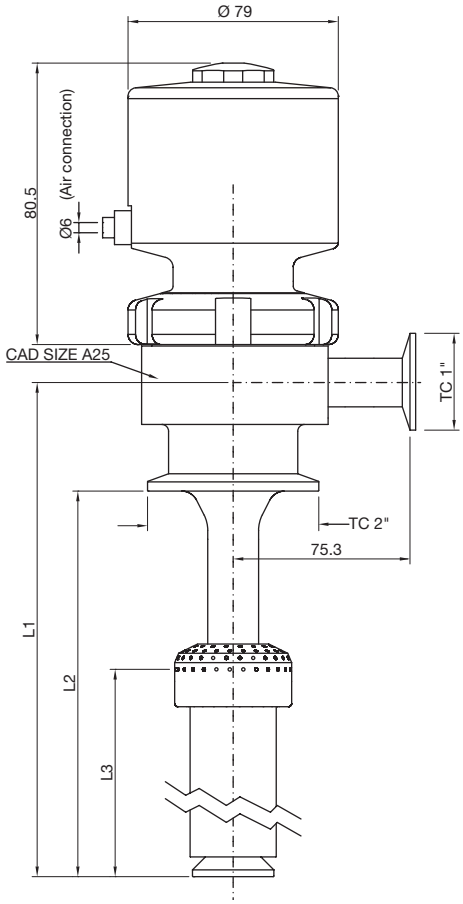
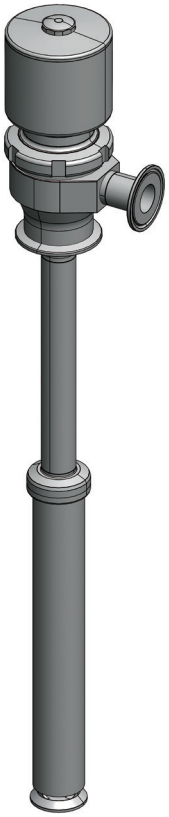
info@rattiinox.com

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 tipical 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

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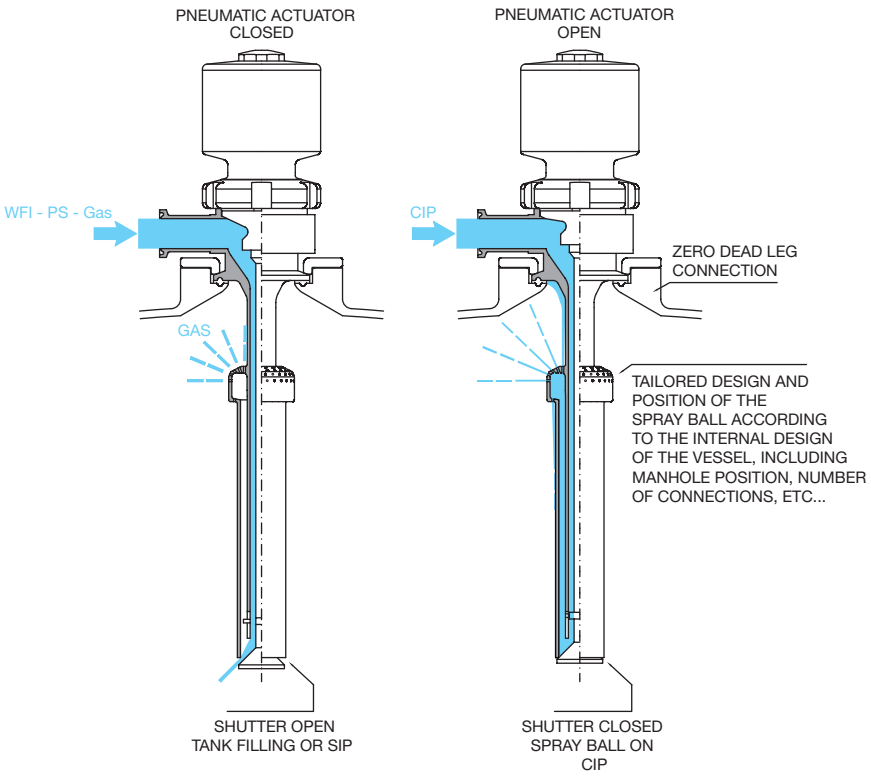
SPECIFICATION:



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 ≤ 0.3µm (16µin)
External surface Ra ≤ 0.5µm (20µin)

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.

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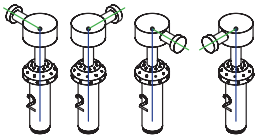

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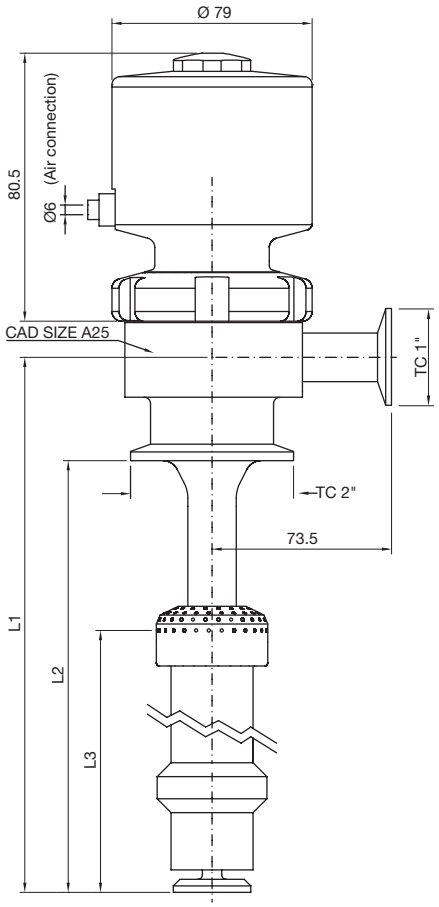
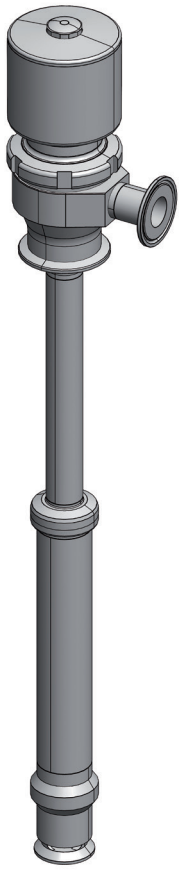
TECHNICAL INFORMATION _ **CAT. N. YDTB 3FNL 0000 A2500**

3 FUNCTIONS DIP-TUBE SPRAYBALL SPARGER A25





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3 Functions Dip-Tube Sprayball Sparger A25 for SAFE areas engineered to give the best solution for the tipical 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

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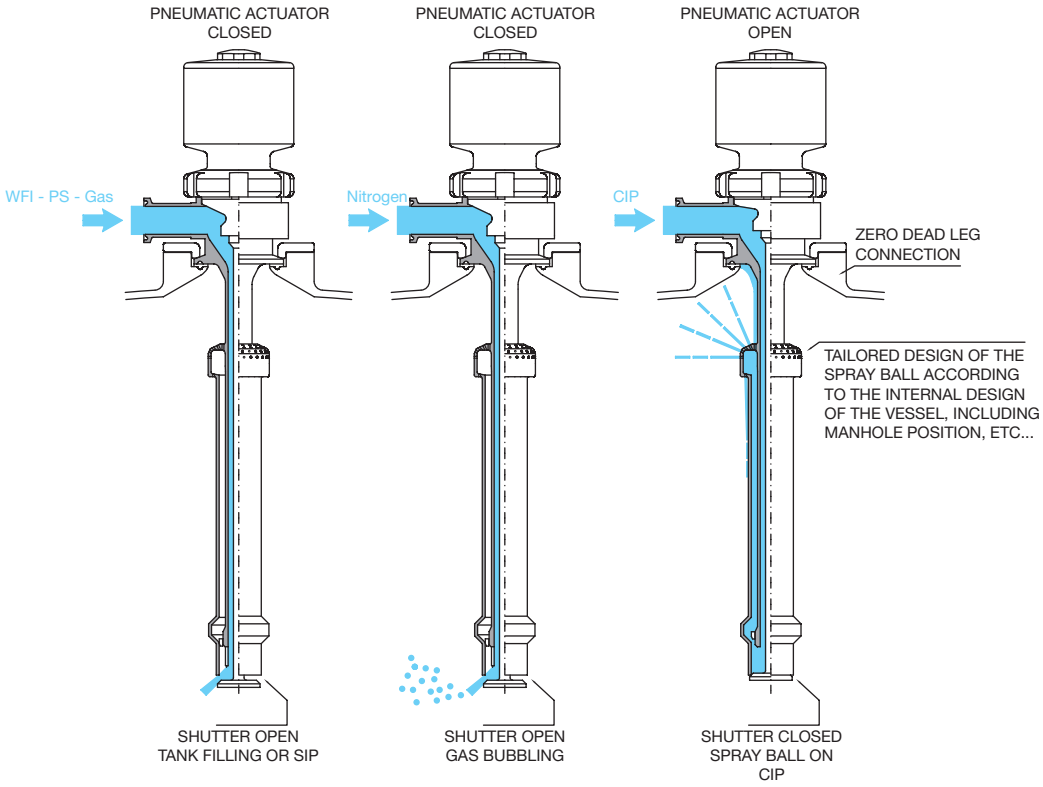
RATTIINOX
ASEPTIC EQUIPMENT - DESIGN & SUPPLIER

CAD
CLEAN & ASEPTIC DESIGN

SPECIFICATION:



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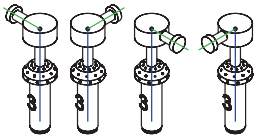

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