

STERILE PHARMACEUTICAL WATER DISTRIBUTION SKID CONFIGURATION

PHARMACEUTICAL / VETERINARY SECTOR

WATER	Type of water	 Water for injections Purified water 		
	Purified water distribution temperature	Between 10°C and 80°C		
ACCUMULATION TANK	Accumulation tank volume*	Between 500L and 10,000L		
	Tank insulation	 Rock wool and welded jacket Rock wool and detachable jacket No insulation 		
	Instrumentation of the buffer bank	 Pressure transmitter Radar level Guided microwave level Digital maximum level Digital minimum level Vent filter 0.22 µm unheated Vent filter 0.22 µm heated Temperature probe with sheath Security valve Manhole Washing balls 		
	Tank discharge valve	 Welded Diaphragm Relief Valve Valve with clamp connection 		
	Tank interior finishes	ο AISI316L Ra< 0,5 μm ο AISI316L Ra< 0,8 μm		
	Tank exterior finishes	 Satin polished (including weldings) Mirror polished (including weldings) Technical area finish (without polished weldings) 		
	Tank connections	∘ Tri-Clamp ∘ NA-Connect		



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DISTRIBUTION OF THE RING	Connections*	Tri-Clamp ASME-BPE-SF1	
	Number of points of use*	Between 1 and 30 points of use	
	Points of use opening simultaneity factor	Between 0.1 and 1	
	Ring pipe diameter*	Between 1" and 4"	
	Point of use flow	Between 500 L/h and 4,000 L/h	
	Point of use diameters	Between ½"and 2"	
	Minimum Ring Return Flow*	Between 1,000 L/h and 4,000 L/h	
	Ring Sanitization / Sterilization*	 124°C clean steam sterilization and purge control of the point of use Overheated water sterilization 80°C purified water sanitization 	
	Ring regulations	 Pump delivery pressure Ending ring pressure Pump delivery flowmeter Ending ring flowmeter Ending ring pressure automatic control valve Ending ring pressure regulator Ending ring temperature probe Return steam exchanger Return cold exchanger Pump frequency inverter 	
	Ring quality controls*	 Ending ring minium pressure control Ending ring minium flow control Return conductivity contro Return TOC control UV disinfection system Discharge sampling valve Return sampling valve Ring return temperature control Ring availability management 	
	Points of use opening	 Manual Automatic Automatic-Manual Opening limiter Configuration of automatic opening of points of use Simultaneity management of points of use ZDL valves Multiport valves with integrated sampling 	

* Other options available on request.



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TECHNICAL FEATURES	Pumping system	 1 open impeller centrifugal pump 2 redundant open impeller centrifugal pumps Sterilizable pump/s option Pump protection with level detector Tank level pump protection 		
	Ring valves	EPDM membrane valvesEPDM-PTFE membrane valves		
DOCUMENTATION		o GMP	o ATEX	
AUTOMATION		o HMI o User d	o 21CFR o User configurable recipes o Remote access	



NON-STERILE PHARMACEUTICAL WATER DISTRIBUTION SKID CONFIGURATION

PHARMACEUTICAL / VETERINARY / COSMETIC SECTOR

WATER	Type of water	 Cold purified water Hot purified water 		
	Purified water distribution temperature	Between 10°C and 80°C		
ACCUMULATION TANK	Accumulation tank volume*	Between 500L and 10,000L		
	Tank insulation	 Rock wool and welded jacket Rock wool and detachable jacket No insulation 		
	Instrumentation of the buffer bank	 Pressure transmitter Radar level Guided microwave level Digital maximum level Digital minimum level Vent filter 0.22 µm unheated Vent filter 0.22 µm heated Temperature probe with sheath Security valve Manhole Washing balls 		
	Tank discharge valve	 Welded Diaphragm Relief Valve Valve with clamp connection 		
	Tank interior finishes	ο AISI316L Ra< 0,5 μm ο AISI316L Ra< 0,8 μm		
	Tank exterior finishes	 Satin polished (including weldings) Mirror polished (including weldings) Technical area finish (without polished weldings) 		
	Tank connections	∘ Tri-Clamp ∘ NA-Connect		



NON-STERILE PHARMACEUTICAL WATER DISTRIBUTION SKID CONFIGURATION

PHARMACEUTICAL / VETERINARY / COSMETIC SECTOR

DISTRIBUTION OF THE RING	Connections*	Tri-Clamp ASME-BPE-SF1	
	Number of points of use*	Between 1 and 30 points of use	
	Points of use opening simultaneity factor	Between 0.1 and 1	
	Ring pipe diameter*	Between 1" and 4"	
	Point of use flow	Between 500 L/h and 4,000 L/h	
	Point of use diameters	Between ½"and 2"	
	Minimum Ring Return Flow*	Between 1,000 L/h and 4,000 L/h	
TECHNICAL FEATURES	Ring Sanitization / Sterilization*	o 80°C purified water sanitization	
	Ring regulations	 Pump delivery pressure Ending ring pressure Pump delivery flowmeter Ending ring flowmeter Ending ring pressure automatic control valve Ending ring pressure regulator Ending ring temperature probe Return steam exchanger Return cold exchanger Pump frequency inverter 	
	Ring quality controls*	 Ending ring minium pressure control Ending ring minium flow control Return conductivity contro Return TOC control UV disinfection system Discharge sampling valve Return sampling valve Ring return temperature control Ring availability management 	
	Points of use opening	 Manual Automatic Automatic-Manual Opening limiter Configuration of automatic opening of points of use Simultaneity management of points of use ZDL valves Multiport valves with integrated sampling 	

* Other options available on request.



NON-STERILE PHARMACEUTICAL WATER DISTRIBUTION SKID CONFIGURATION

PHARMACEUTICAL / VETERINARY / COSMETIC SECTOR

TECHNICAL FEATURES	Pumping system	 1 open impeller centrifugal pump 2 redundant open impeller centrifugal pumps Sterilizable pump/s option Pump protection with level detector Tank level pump protection 		
	Ring valves	EPDM membrane valvesEPDM-PTFE membrane valves		
DOCUMENTATION		o GMP		• ATEX
AUTOMATION		o HMI o Use	o 21CFR o User configurable recipes o Remote access	