

BESTOBELL
AQUATRONIX

SINCE / DEPUIS 1953

BEP-Bestobell
www.bestobell.com

FOOD & BEV SERIES PRODUCTS



BESTOBELLSTEAM



STERIFLOW
FOOD & BEVERAGE



Donaldson
FILTRATION SOLUTIONS



intempco





4" FBCV SERIES

FBCV-OR SERIES

Control Valve

The FBCV O-Ring Series is designed to meet the rigid specifications for sanitary process control valves for customers who prefer an O-ring style stem seal. This valve series is suitable for a wide variety of applications in the cosmetic, dairy and food & beverage industries.

Conforming to 3A guidelines, the FBCV is ideally suited for a wide range of flowing media in both the utility and process areas of sanitary systems.

High rangeability, characterized trim, high capacities, superior temperature and pressure ratings along with a selection of sealing methods make the FBCV the sanitary control valve for liquid, gas and steam services.

Whether the need is to control pressure, temperature, flow pH or another variable, the FBCV is the right valve for your process.

Sizes	1/2" - 4" (DN15 - DN100)
End Connections	ASME, DIN and ISO Tri-Clamp, Extended Tube Weld
Max Pressure/ Temperature	450 psi (31 bar) at 100°F (38°C), dependent upon construction 250 psi (17 bar) at 100°F (38°C) for 4"
Cv & Flow Characteristic	0.2 - 100, Linear, Equal Percentage or Quick Opening Trim Characteristics
Approvals	3A 53-07
Wetted Material & Surface Finish	32 Ra (standard) on all wetted parts; exterior as cast
Soft Seat Option (Cv ≥ 3.5 only)	PTFE FDA; PEEK FDA
Stem Seal O-Ring	Various - all certified to FDA

FB5C SERIES

Back Pressure Valve

The FB5C Series is a sanitary back pressure regulator which is designed to regulate pressure in systems requiring the maintenance of sanitary conditions. This regulator is ideal for purified water, clean utilities and media in the Food & Beverage and Consumer health and beauty industries. Suitable for a range of applications including CIP, SIP, centrifuges, autoclaves, culinary equipment, sterilizers and process tanks. Soft seats available - consult factory.

Sizes	1/2" - 3" (DN15 - DN80)
End Connections	Sanitary-clamp; tube weld ends (optional)
Cv (Kv)	1.5 - 28 (1,3 - 24)
Setpoint Range	3 psi (0,2 bar) to 135 psi (9,3 bar) dependent on size and construction
Approvals	3A 64-00
Seat Materials	Standard hard seat - integral 316L SST seat
Wetted Material & Surface Finish	32 Ra (standard) on wetted parts; exterior as cast
Diaphragm Material	EPDM/Nylon (FDA), Jorlon (FDA)



FB6C SERIES

Pressure Reducing Valves

The FB6C Series is a sanitary pressure regulator which is designed to regulate pressure in systems requiring the maintenance of sanitary conditions. This regulator is ideal for purified water, clean utilities and media in the Food & Beverage and Consumer health and beauty industries. Suitable for a range of applications including CIP, SIP, centrifuges, autoclaves, culinary equipment, sterilizers and process tanks. Soft seats available - consult factory.

Sizes	1/2" - 3" (DN15 - DN80)
End Connections	Sanitary-clamp; tube weld ends (optional)
Cv (Kv)	2.9 - 29 (2.5 - 25.4)
Setpoint Range	3 psi (0,2 bar) to 135 psi (9,3 bar) dependent on size and construction
Approvals	3A 64-00
Seat Materials	Standard hard seat - integral 316L SST seat
Wetted Material & Surface Finish	32 Ra (standard) on wetted parts; exterior as cast
Diaphragm Material	EPDM/Nylon (FDA), Jorlon (FDA)

SVC/SHC SERIES

Check Valve

The SVC/SHC Series is a sanitary check valve which is needed when it is necessary to prevent the product from flowing in the wrong direction. The valve is kept open by the liquid flow in the correct direction. If the flow stops, the plug is forced against its seat by the spring and closes against reversal of the flow. The valve is ideal for CIP/SIP, sanitary pump skids, batch processing, mixing and backflow prevention.

Sizes	SHC: 1/2" - 2" / SVC 1/2" - 4"
End Connections	Sanitary-clamp
Max Pressure/ Temperature	230 psi @ 100°F (16 bar @ 38°C) depending on material
Approvals	3A 58-01
Wetted Material & Surface Finish	ASTM SA479 316L (UNS 31603) 32 Ra on all wetted parts



SG SERIES

Sight Glasses

Inline tri-clamp, double window sight glass for media and purified water applications for the food & beverage and consumer health and beauty industries. Suitable for CIP and SIP, the SG Series has a large viewing area, full bore flow path, and a metal stop that provides ideal o-ring compression and prevents pipe torque from affecting glass.



Sizes	1/2" - 4" (DN15 - DN100)
End Connections	ASME BPE Tri-Clamp compatible
Max Pressure/ Temperature	145 psi @ 266°F (10 bar @ 130°C) with EPDM; 145 psi @ 284°F (10 bar @ 140°C) with Viton
Wetted Material & Surface Finish	ASMPE BPE SF1 20 Ra uin mechanical finish

SGW SERIES

Sight Glass Windows

Tri-clamp sight glass windows for media vessel and large line viewing applications in the, food & beverage and consumer health & beauty industries. Suitable for CIP and SIP; compact design, exceptional strength and hygienic design.

Sizes	1/2" - 6" (DN15 - DN150)
End Connections	ASME BPE Tri-clamp compatible; contact factory for other availability
Max Pressure/ Temperature	varies by size, see data sheet
Materials of Construction	Duplex stainless steel (UNS 31803/32205) Borosilicate glass Gasket and clamp supplied by user
Wetted Surface Finish	Wetted parts: ASME BPE SF5 20Ra electropolished, standard; other finishes upon request External: 20Ra electropolished standard



2-WAY DIAPHRAGM VALVES



Steriflow Food & beverage's cast body 2-way diaphragm valves offer an economical alternative to forged body valves when customer process requirements or specifications allow. Steriflow's manufacturing, assembling, documentation and valve traceability practices remain the same whether the valve is made from 316L cast or forged material.

Sizes	1-1/2" - 4" (DN40 - DN100)
End Connections	Tri-clamp, extended tube end
Wetted Material & Surface Finish	32Ra or 32Ra electropolished
Exterior	as cast/electropolish optional
Operation	Manual and automated versions available

SANITARY DIAPHRAGM VALVES

Manual or air actuated forged 2-way or cast 2-way, ported and tandem valves, barstock zero static T-block, point of use T-block, divert tank bottom and custom block body valves.

Consult factory for more information on available configurations and Quick Shipment Program.



SV SERIES

Sample Valves

The SV Series was designed for use in high purity steam and culinary steam and water systems. The SV Series utilizes a steam resilient Perlast seat seal to ensure optimum service life and bubble-tight shutoff. Because of these design characteristics, the SV is also used for any general sanitary sampling application where a manual valve is required.



Sizes	1/4" - 4" (DN15 - DN100)
End Connections	Sanitary-clamp
Max Pressure/ Temperature	1/2" - 2": 1000 psi (69 bar); 2-1/2" - 4": 800 psi (55 bar)
Wetted Material & Surface Finish	ASTM A351 CF3M 32 Ra on all wetted parts

SSRV VALVES

Safety Relief Valves

The SSRV Sanitary Safety Relief Valve is designed to relieve over-pressure upset in hygienic and aseptic process and clean steam utility systems. The SSRV is designed to be manually set to open at a predetermined pressure to protect pressure vessels and other equipment from being subjected to pressures that exceed their design limits.

Sizes	SSRV-81: 1/2" - 1" ;SSRV-83: 1-1/2" Consult factory for newly released sizes
End Connections	FNPT, ASME BPE Tri-clamp
Max Pressure/ Temperature	SSRV-81: 550 psi (38 bar) @ 450°F (232°C) SSRV-83: 255 psi (18 bar) @450°F (232°C)
Body & Wetted Trim Materials	ASME SA479 316L (UNS 31603), AL6XN, Hastelloy C-22
Approvals	Consult factory for ASME stamp approval numbers



EQUILIBAR®
PRECISION FLUID CONTROL

FD SERIES

Back Pressure Regulators

The FD Series valves are designed for use in sanitary industries such as food & beverage. The unique dome loaded multi-orifice design delivers instantaneous response, frictionless operation, and precision control across a very wide range of flow rates, 100 times industry norms. Its simple design has only one moving part making it easy to maintain and its compact simplifies process layout. The FD Series valves are dome loaded using a 1:1 setpoint pressure with inert gas or air controlled with a manual or electronic pressure regulator. The FD valve with an electronic pilot setpoint regulator is a perfect match for computer automated control in food & beverage processing.

Sizes	1/2" - 3"
End Connections	Sanitary-clamp
Max Pressure	150 psig (10 bar)
Body Materials	SS316L; Hastelloy C; custom
Cv Range	IE-7 to 36

FBCPM SERIES Constant Modulating Valves

The FB5CPM (inlet) and FB6CPM (outlet) are air loaded sanitary constant pressure modulating valves, designed to allow the user to change set-points remotely via a cabinet or panel mounted air regulator, or through a distributed control system or PLC, using an I-P transducer. The valve is preferred in HTST/UHT Pasteurization, after Heat Exchangers, and Bottling Lines.

Sizes	1/2" - 3" (DN15 - DN80)
End Connections	ASME Tri-Clamp, others consult factory
Max Pressure/ Temperature	1/2" - 1" (DN15-DN25): 350 psig @ 100°F & 250 psig @ 300°F (24 bar @ 38°C & 17 bar @ 149°C); 1-1/2" - 2" (DN40-DN50): 200 psig @ 100°F & 300°F (14 bar @ 38°C & 149°C)
Approvals	3A 53-07
Diaphragm Material	Jorlon™ (FDA, 3A approved)



93JR SERIES

Sanitary Steam Traps

The Mark 93JR Series is an ultra compact, balanced port, thermostatic steam trap designed specifically for use in validated clean steam system for low to medium condensate flows. The sanitary design follows ASME BPE guidelines including a 20Ra μ m internal finish, self draining design, and all relevant materials, marking and documentation.

Sizes	3/8", 1/2", 3/4", 1" (DN8, DN15, DN20, DN25)
Installation	Vertical, Horizontal
End Connection	Threaded, Tri-Clamp, Butt weld, Tube weld
Max Allowable Pressure	145 psig (10 barg); 350F (177C)
Max Operating	100 psi (10 bar)
Subcooling	Less than 3 F (1.8 C)



93TH SERIES

Sanitary Steam Trap

The Mark 93TH is a balanced port, thermostatic steam trap designed for use in validated clean steam systems that use threaded tube fittings or threaded tubing adapters for connections. The sanitary design includes a 20Ra μ m internal finish, self-draining design, and a compact size.

Sizes	1/2", 3/4", 1" (DN15, DN20, DN25)
Installation	Vertical, Horizontal
End Connection	Threaded, socket weld, flanged, others
Max Op pressure	90 psig
Max Temp	350 F (177 C)

DTCS SERIES

Disc Trap

The DTCS Series is a 316L polished, stainless steel thermodynamic disc trap that is compact with a lightweight design and tri-clamp end connections. Though non-sanitary in the traditional sense, the exterior is polished to 20 Ra and can be used in clean room environments on plant steam, or non-validated clean steam applications. It is ideal for fluctuating steam loads and pressures.

Sizes	1/2" & 3/4" (DN15 & DN20)
End Connection	Tri-clamp
Body Material	Casting, AISI 316L
Pressure Max Allowable	227 psig (15,6 barg)
Temperature Max Allowable	840°F (450°C)



BTCS SERIES

Clean Steam Trap

The BTCS Series is a two piece, tri-clamp body, balanced port, high flow thermostatic sanitary steam trap with vertical or horizontal inlet and/or outlet connections for pure steam SIP and loop drainage applications in aseptic food & beverage and consumer health and beauty industry applications.



Sizes	3/4", 1", 1-1/2" (DN20, DN25, DN40)
Installation Connection	Vertical, Horizontal
Connection Type	ASME, DIN, ISO Tri-Clamp, Tube Weld Ends
Max. Allowable Pressure/Temp	145 psig (10 barg); 350°F (177°C)
Max Operating Pressure	50 psi (3,4 bar)
Subcooling	Less than 3°F (1,8°C)

PR3G SERIES

Pressure Regulators

The PR3G Series handles a broad range of applications including steam, water, oil, gas, air and chemicals. It is a self-operating pressure regulator used to regulate the downstream pressure to a predetermined setpoint. The sliding gate seats offer excellent control and extreme longevity in a compact, lightweight design.

Sizes	1/4" - 2" (DN8 - DN50)
Cv (Kv)	up to 19 (16.3)
Diaphragm	Stainless Steel
Max Inlet Pressure	300 psi (Max Outlet 200 psi)
Body Material	Ductile Iron, Carbon Steel, Stainless Steel
End Connection	Threaded NPT



MK60 SERIES

Pressure Regulator

The Mark 60 Series handles a broad range of applications including steam, water, oil, gas, air and chemicals. It is a self-operating pressure regulator used to regulate the downstream pressure to a predetermined setpoint. The sliding gate seats offer excellent control and extreme longevity in a compact, lightweight design.

Sizes	1/4" - 4" (DN8 - DN100)
Cv (Kv)	up to 200 (up to 172)
Diaphragm	Jorlon, Stainless Steel, Hastelloy C, Alloy 20
Shutoff	ANSI Class IV shutoff
Body Material	Ductile Iron, Bronze, Carbon Steel, Stainless Steel, Cast Iron
End Connection	Threaded, Flanged, Socket Weld, Butt Weld

P SERIES

Donaldson Process Filtration

The PG-EG sanitary filter housing is designed for the purification of compressed air or technical gases in sanitary and hygienic applications.

- 3-A certification for Models 0006 - 0192
- Available in 304 or 316L stainless steel
- 12 sizes in flow capacities from 35 to 13,000 scfm
- Low differential pressure at high flow rates
- Inner & outer surface:
 - Models 0006 – 0192, Electropolished to Ra 32
 - Models 0432 – 1920, Nitric passivated Ra 32
- Connections:
 - Models 0006 – 0192, Tri-Clamp (alternate connections available upon request)
 - Models 0432 – 1920, ANSI flange connection



P SERIES

Filter Elements

Reliable Steam Filtration for Every Application

We provide high performing steam filter elements to protect equipment and processes that rely on that steam for efficient, clean and/or sterile operation.



intempco Sanitary Temperature Probes/Transmitters

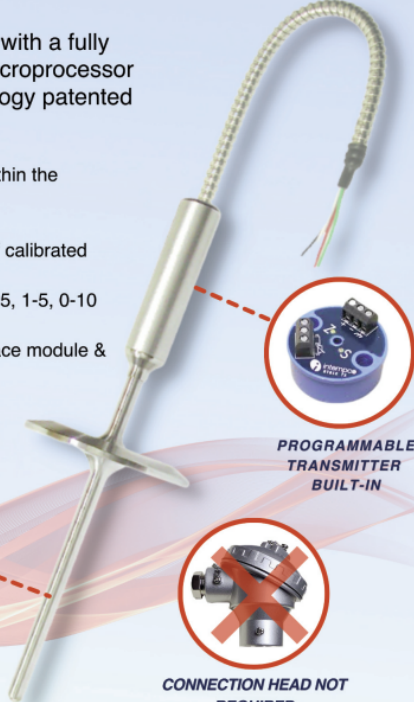
Sanitary MIST Series RTD Temperature Probe with Integral Transmitter



ALL-IN-1 TEMPERATURE SOLUTION MIST SANITARY SERIES

The first temperature sensor with a fully programmable, integrated microprocessor sensor transmitter. A technology patented by Intempco.

- Hermetically sealed transmitter within the sensor
- Compact Size
- Accurate up to $0.10^{\circ}\text{C} + 0.10\%$ of calibrated span with two-point calibration
- Output signals: 4-20 mA 2-wire; 0-5, 1-5, 0-10 VDC 3-wire
- Field re-programmable with interface module & Software



PROGRAMMABLE
TRANSMITTER
BUILT-IN



CONNECTION HEAD NOT
REQUIRED

**BESTOBELL
AQUATRONIX**
SINCE / DEPUIS 1953

USA Patent No.: 7,223,014 CND Patent No.: 2,561,570

DTG Sanitary Series Digital Temperature Gauges

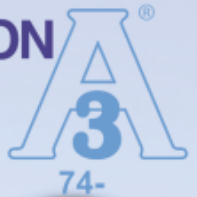


A COMPLETE SOLUTION DIGITAL TEMPERATURE GAUGES

DTG SANITARY SERIES

The DTG Digital Temperature Gauges provide a complete solution for sanitary temperature monitoring and indicating applications. Easy installation with various mounting configurations available.

- Large 4-digit LED or LCD display
- Programmable linearized 4-20 mA signal output
- 5-year battery life (LCD model only)
- Available with 3-A industrial or sanitary fittings
- Field reprogrammable with PC interface module and software
- All Stainless Steel 316 construction



**BESTOBELL
AQUATRONIX**
SINCE / DEPUIS 1953

MIST MS80

w/4-20mA Output



The Intempco RS80 series hygienic clamp assemblies, with enclosure and built-in programmable transmitter in the extension of the probe, are an excellent choice for easy installation into a "tee", "cross", or directly into a sanitary tube. Connection head options include polypropylene, stainless steel, Bakelite, Teflon®, and others. Order probes up to 1/2 inch in diameter for applications that require long and structurally robust probes. Many mechanical configurations derived from this basic RS80 series are available. Review the complete sanitary RTD brochure to find an assembly appropriate for your application, or contact Intempco, and we will provide a complete customized solution.

- Sanitary 3-A approved
- Probes all 316 stainless construction; other materials available
- Standard enclosures are white Polypropylene and Stainless Steel
- Many custom assemblies available with enclosures; consult factory
- 4-20mA output calibrated to customer specified temperature range



UNIVERSAL TRAP

The Universal Trap is a bimetallic steam trap for plant applications requiring standardized connections. The mounting connections allow trap use on any manufacturer's universal mount. The two bolt replacement module allows for ease in installation and replacement. A built-in check valve prevents back flow. It automatically adjusts to operating pressure and load changes, overcoming problems associated with cycle discharge.

Sizes	1/2", 3/4", 1" (DN15, DN20, DN25)
Material	Stainless Steel Internals
Max Allowable Pressure	650 psi (44,8 bar)
Max Allowable Temperature	650°F (343°C)

BESTOBELL
AQUATRONIX
SINCE / DEPUIS 1953

BEP-Bestobell
www.bestobell.com

BEP-Bestobell / Bestobell-Aquatronix
 2880 Argentia Road, Unit 3
 Mississauga, ON, L5N 7X8
 Tel. 905-826-1953 / Fax 905-826-1778
www.bestobell.com

BEP-Bestobell / Bestobell-Aquatronix
 970 Montée de Liesse, #204
 St. Laurent, QC, H4T 1W7
 Tél. 514-331-1225 / Fax 514-331-4255
www.bestobell.com

BEP-Bestobell / Bestobell-Aquatronix
 166 North Side Road
 Riverport, NS, B0J 2W0
 Tel. 902-766-0220/ Fax 514-331-4255
www.bestobell.com