



The Right Connection™



Dixon Sanitary General Brochure

Distributed By:

Dixon Sanitary: *maintaining the standard of quality*



The Sanitary Standards were originally created by the dairy industry as a voluntary benchmark for sanitary safety. The standards are still developed collaboratively by a group of processors, suppliers, and sanitation specialists.

Dixon Sanitary has earned the 3A symbol through the Third Party Verification (TPV) program, which requires a professional assessment rather than voluntary compliance to make certain each product conforms in all respects to the published standard. The standards are accepted by the USDA and USFDA.

- Bradford™ Sanitary Fittings meet 3A Sanitary Standards for Sanitary Fittings, *Number 63-03 (Authorization number 621)*.
- Bradford™ check valves meet 3A Sanitary Standards for Vacuum Breakers and Check Valves for Milk and Milk Products, *Number 58-00 (Authorization number 1447)*.
- Bradford™ Sanitary ball valves meet 3A Sanitary Standards for Ball-Type Valves for Milk and Milk Products, *Number 68-00 (Authorization number 1022)*.
- Bradford™ filter/strainers meet 3A Sanitary Standards for Filters Using Single Service Media, *Number 10-04 (Authorization number 1446)*.
- Polished metal tubing meet 3A Sanitary Standards for Polished Metal Tubing for Milk and Milk Products, *Number 33-01 (Authorization number 1206)*.

Dixon Sanitary is proud to be a participant in the 3A TPV program.

See the Dixon Sanitary web site, www.bradfordfittings.com, to download a PDF of the certificate or call Dixon Sanitary 800.789.1718

Fittings



Clamp Fittings



The Clamp Fitting system consists of two grooved ferrules, a sanitary gasket, and a clamp which create a leak-proof connection.

- sizes: ½" thru 12" tube OD
- configurations: short, long and recessless ferrules, Tygon® hose and NPT adapters, elbows, tees, reducers, wyes, laterals, 180° returns, sweeps and end caps
- material: 304 and 316L stainless steel
- finish: mechanical polish ID/OD and electropolish



Schedule 5 and 10 Fittings



The Schedule 5 and 10 system consists of two grooved ferrules, a special gasket, and a clamp (for gasket compression) which create a leak-proof connection.

- sizes: 1" thru 4" nominal pipe sizes
- configurations: ferrules, adapters, clamps and end caps
- material: 304 and 316L stainless steel
- finish: mechanical polish ID/OD and electropolish

Fittings

Bevel Seat Fittings



The Bevel Seat system requires plain and threaded connectors and a hex nut to create a leak-proof, metal-to-metal connection.

- sizes: 1" thru 4"
- configurations: short, long and recessless ferrules, hex nuts, Tygon® hose and NPT adapters, elbows, tees, reducers, wyes, laterals and end caps
- material: 304 and 316L stainless steel
- finish: mechanical polish ID/OD and electropolish



John Perry Fittings



John Perry assemblies require a hex nut, threaded and plain connectors and a gasket to create a leak-proof connection.

- sizes: 1" thru 4"
- configurations: short and long ferrules, hex nuts, elbows, tees, reducers, wyes, laterals and end caps
- material: 304 and 316L stainless steel
- finish: mechanical polish ID/OD and electropolish



I-Line Fittings



I-line clamp assemblies require a male and female ferrule, a gasket and a clamp. The special shape of the I-line ferrule coupled with the special clamp compresses the gasket to form a leak-proof connection.

- sizes: 1" thru 8"
- configurations: short and long ferrules, hose adapters, elbows, tees, reducers, wyes, laterals and end caps
- material: 304 and 316L stainless steel
- finish: mechanical polish ID/OD and electropolish



Q-Line Fittings



Q-Line clamp assemblies require two ferrules, a gasket and a clamp. The special shape of the Q-line ferrule coupled with the special clamp compresses the gasket to form a leak-proof connection

- sizes: 1" thru 4"
- configurations: ferrules, elbows, tees, reducers, wyes, laterals and end caps
- material: 304 and 316L stainless steel
- finish: mechanical polish ID/OD and electropolish



Fittings



Butt-weld Fittings



Sanitary butt-weld fittings are used in the assembly of permanent systems that do not require breakdown for service or cleaning. Our tight design tolerances ensure an easy assembly.

- sizes: ½" thru 12" tube OD
- configurations: elbows, tees, reducers, wyes, laterals, 180° returns, sweeps and weld caps
- material: 304 and 316L stainless steel
- finish: mechanical polish ID/OD and electropolish



Tube OD Fittings

Used in non-sanitary applications to assemble permanent systems that do not require breakdown for service or cleaning. Our tight design tolerances ensure an easy assembly.

- sizes: ½" thru 12" tube OD
- configurations: elbows, tees, reducers, wyes, laterals, flanges, weld ends and weld caps
- material: 304 and 316L stainless steel
- finish: unpolished



Tube Hangers

Hex, round and block hangers are offered for use in a variety of applications.

- sizes: ½" thru 8" (availability depends on hanger style)
- material: stainless steel
- insert material: nitrile, ABS sleeve, polypropylene and FDA approved santoprene

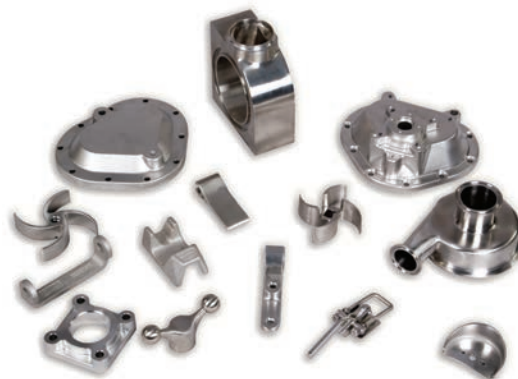
A variety of couplers are offered for threaded rod or pipe.

Fittings

Custom Parts

Dixon Sanitary offers custom fabricated and machined parts (no order is too small). We have CAD capabilities, experienced machinists, welders and polishers.

- sizes: ½" thru 12"
- material: 304 and 316L stainless steel
- manufacturing processes: fabrications, machining, welding, polishing to 3A standards or better
- finish: per customer request



Valves

Sample Valves

Dixon Sanitary offers sample valves for use in processing systems.

- sizes ½" thru 4"
- type: 304, in-line, angle
- configurations: clamp, butt-weld, NPT
- material: 304 and 316L stainless steel
- seat material: silicone, Viton®



Check Valves



Dixon Sanitary offers a wide selection of check valves. Bradford™ check valves feature quick disconnect clamp ends for clean-in-place (CIP) service. Air relief valves for 3A applications are also available.

- sizes: ½" thru 4"
- type: spring, Y ball, air blow, air relief

Valves can be customized for butt-weld, bevel seat, I-line or John Perry ends.



Valves



Butterfly Valves

Dixon Sanitary offers a wide selection of butterfly valves with many handle options to fit your specific application. Automation is also available.

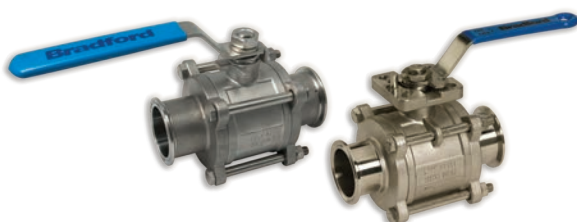
- sizes: 1" thru 8"
- configurations: clamp, butt-weld, bevel seat, John Perry, I-line, Q-line
- seat material: silicone, EPDM, Viton®/FKM
- manual actuation: 4 position pull, 12 position trigger, infinite position, clockwise push, counter clockwise push
- automatic actuation: pneumatic, electric



Industrial Ball Valves

Dixon Sanitary now offers stainless and brass two way ball valves. Each valve includes an ISO 5211 mounting pad allowing direct mount of actuators.

- sizes: 1/4" thru 4" (not all sizes available in all style valves)
- type: two-piece, three-piece
- configuration: FNPT
- material: brass and stainless steel
- seat material:
 - stainless steel - 15% reinforced PTFE
 - brass - virgin PTFE



Clamp End Ball Valves

Dixon Sanitary offers a wide selection of Bradford™ ball valves with an assortment of end connections. Some valves include an ISO 5211 mounting pad allowing direct mount of actuators.

- sizes: 1/2" thru 4"
- type: encapsulated and non-encapsulated (with or without cavity fillers)
- seat material: virgin PTFE (3A), 15% fiberglass reinforced PTFE (3A), 25% carbon reinforced PTFE, 50% stainless steel PTFE (3A) and UHMW polyethylene (3A)
- configurations: clamp, butt-weld, bevel seat, John Perry, I-line, Q-line



Multi-port Ball Valves

Dixon Sanitary offers a wide selection of Bradford™ multi-port ball valves with an assortment of end connections. Each valve includes an ISO 5211 mounting pad allowing direct mount of actuators.

- sizes: 1/4" thru 4" (not all sizes available in all style valves)
- type: industrial and sanitary
- material: brass and stainless
- configuration: three-way and four-way L and T flow patterns
- seat material for sanitary valves: virgin PTFE (3A), 15% fiberglass reinforced PTFE (3A), 25% carbon reinforced PTFE, 50% stainless steel PTFE (3A) and UHMW polyethylene (3A)
- seat material for industrial valves:
 - stainless steel - 15% reinforced PTFE
 - brass - virgin PTFE
- end connections: FNPT, clamp, butt-weld, bevel seat, John Perry, I-line, Q-line

Automation

Accessories

Dixon Sanitary offers many different accessories to complete your automation valve package. Our professionally trained specialists assemble and test each accessory to guarantee their performance in the field.

- Legris fittings
- proximity sensors
- limit switches for pneumatic actuators
- NAMUR mount solenoid valves
- pneumatic and electro-pneumatic positioners



Stainless Steel Actuators

Dixon Sanitary can actuate all butterfly and ball valves with Bradford™ stainless steel actuators. Our professionally trained specialists assemble and test each automation package to guarantee its performance in the field. Most standard orders can ship within 24 hours from our Wisconsin Valve Automation Department.

- size: 40 inch pounds to 27,000 inch pounds
- style: vertical or horizontal
- type: piston or rack and pinion
- operation: double acting, spring return, normally open or closed



Aluminum Actuators

Dixon Sanitary can actuate all butterfly valves and ball valves with Bradford™ aluminum rack and pinion actuators. Our professionally trained specialists assemble and test each automation package to guarantee its performance in the field. Most standard orders can ship within 24 hours from our Wisconsin Valve Automation Department.

- size: 40 inch pounds to 27,000 inch pounds
- style: horizontal
- type: rack and pinion, 90° and 180°
- operation: double acting, spring return, normally open or closed



Automation

Electric Actuation



Bradford™ electric actuators are designed for longevity and efficiency at a competitive price. They conform to CSA-C for outdoor usage. We can actuate all butterfly valves and ball valves with our quarter turn electric actuators. All of our actuated valves ship directly from Dixon Sanitary's Valve Automation Department in Wisconsin, many within 24 hours.

- size: 450 inch pounds to 39,975 inch pounds
- case: dry powder coated aluminum alloy, NEMA 4 and 4X waterproof and dust proof
- RoHS compliant

All units include manual override and an internal heater.



Manual Valves with Limit Switch

Dixon Sanitary offers limit switches on Bradford™ manual valves allowing remote verification of valve position (open/closed) thus reducing labor costs by creating efficiencies in plant operations. Most standard orders can ship within 24 hours from our Wisconsin Valve Automation Department.

- size: 1/2" thru 8" (depending on valve)
- style: NEMA 4 4/4x and 7
- type: ball and butterfly valve
- handle: 4 position pull, 12 position trigger, infinite position, clockwise push, counter-clockwise push (depending on valve)



Valve Automation

Dixon Sanitary offers in-house valve automation from our Pewaukee, Wisconsin facility. Our trained staff will guide you through the most difficult automation packages to produce a quality product. Many standard automation packages can ship within 24 hours.

Each valve automation package is 100% tested and inspected by our trained professional technicians. Then each unit is carefully packaged and encased in expandable foam to ensure safe arrival to you and/or your customers.

Accessories

Filter/Strainer



Dixon Sanitary offers Bradford™ filter/strainers that remove particles from liquid or gas using a disposable medium. When used as a strainer, larger particles can be removed from these same liquids and gases.

- sizes: 1" thru 3"
- type: inline long and short, side entry long dual units with butterfly or 3-way ball valves
- material: 316L stainless steel
a variety of filter and strainer medias are available
- configurations: clamp, John Perry, Q-line, bevel seat, I-line, butt-weld



Sanitary Gauges

Dixon Sanitary offers top quality sanitary gauges, instrument tees and transducers.

- sizes: ½" thru 2"
- materials: 316 stainless steel Bourdon tube, food grade
- style: analog or digital
- type: dry or glycerin filled
- dial: 2½" thru 4½"
- mount: lower or back



Sight Glass

Dixon Sanitary offers Bradford™ sight glasses made with high temperature borosilicate (Pyrex®) glass.

- sizes: 1" thru 6"
- materials: 316 stainless steel
- type: in-line with or without acrylic shield and acrylic end cap, for clamping (not pictured)
- configurations: clamp, weld, bevel seat, John Perry, I-Line, Q-Line



Spraying Equipment

Dixon Sanitary offers an assortment of Bradford™ spraying and filling equipment to handle the processing industries CIP and filling needs.

- sizes: ¾" thru 1½"
- materials: 304 and 316L stainless steel
- style: rotating and stationary spray balls
- connections: clamp, NPT
- spray pattern: 180° upper and lower and 360°



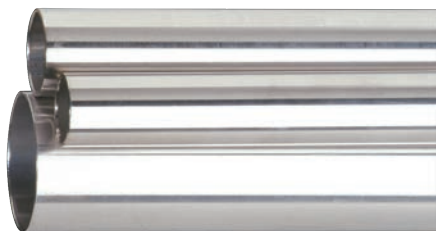
Accessories



Couplings

Dixon Sanitary offers many sizes of crimp fittings for use with many different sizes and types of hose.

- sizes: ½" thru 4"
- materials: 304 and 316L stainless steel
- end configurations: clamp



Tubing



Dixon Sanitary offers top quality stainless steel tubing in 20 foot lengths.

- sizes: ½" thru 10"
- material: ASTM-A249-02, ASTM-A269-02 and ASTM-A270-02
- grade: 304 / 304L, 316 / 316L stainless steel
- finish: unpolished and polished ID/OD



Gaskets

Dixon Sanitary offers many styles of gaskets and material for use in many types of processing plants.

- sizes: ½" thru 12"
- certified to: US Pharmacopoeia Class VI-XXII, Cytotoxicity Criteria Title 21CFR177.2600 and .1550 USDA and 3A sanitary standards
- elastomers: nitrile (buna N), silicone (peroxide cured/platinum cured), EPDM, Viton®/FKM and PTFE
- types: clamp, including schedule 5 and 10, I-line, bevel seat, John Perry, Q-line



Specialty Gaskets

Dixon Sanitary offers many styles of specialty gaskets and material for use in many types of processing plants.

- sizes: ½" thru 12"
- elastomers: nitrile (buna N), silicone (peroxide cured/platinum cured), EPDM, Viton®/FKM and PTFE
- styles: square mesh, orifice, perforated metal
- types: clamp, including schedule 5 and 10, I-line, bevel seat, John Perry, Q-line

Dixon Mobile Connections

Classroom on Wheels

The Dixon mobile training trailer provides hands-on opportunities for distributors and end users to learn more about the selection, installation and maintenance of industrial and sanitary fittings, valves and accessories.



Hose Assembly Safety Survey Center for:

- program introduction
- classroom instruction with audio visual display
- presentation of survey results and follow-up



Training for Distributors and End-Users in:

- product selection
- product installation
- safe product usage

Product Displays featuring:

- Dixon Accessories
- Dixon Bayco
- Dixon Boss
- Dixon Brass
- Dixon Powhatan
- Dixon Quick Coupling
- Dixon Sanitary
- Dixon Specialty Hose

