



Performance Stainless Valves & Flow Components

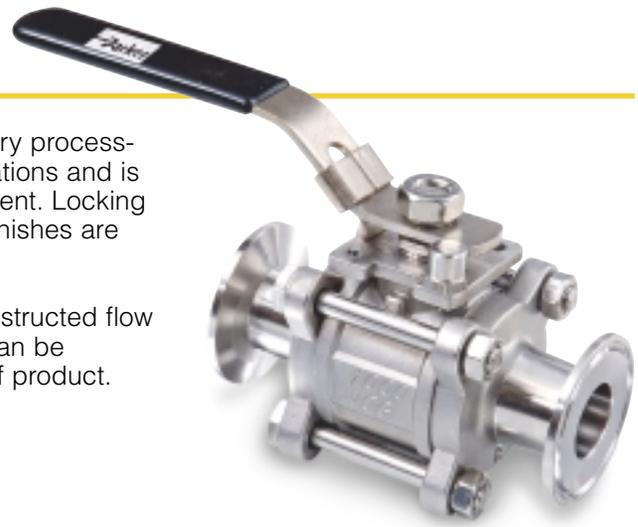
**Catalog 4270-VFC
October 2005**



Ball Valves

Parker sanitary Ball Valves meet the special demands of the sanitary processing industry. Each valve is built to precise manufacturing specifications and is designed to perform reliably in virtually every processing environment. Locking Handles, ISO mounting pad, PTFE cavity fillers and polished I.D. finishes are just a few standard features.

Parker 3-piece Ball Valves are a full-port design which allows unobstructed flow of virtually any fluid media through the valve body. Parker Valves can be matched with a variety of actuators to accurately control the flow of product.



TECHNICAL FEATURES

MATERIAL & ELASTOMERS	- 316 stainless steel (wetted parts), PTFE cavity filler
AVAILABLE SIZES	- 0.50", 0.75", 1.0", 1.5", 2.0", 2.5", 3.0" & 4.0"
SURFACE FINISH	- 32 RA mechanical sanitary polish - I.D.
CONNECTIONS	- Sanitary clamp (standard), weld connection available
ACTUATION	- Standard ISO5211 mounting pad allows for easy actuation
MAX PRESSURE	- 1,000 PSI (W.O.G.) at 70°F (all sizes)
MAINTENANCE /	- Valve can remain connected in-line while servicing. No special tools required
OTHER FEATURES	- USDA approved design, lockable handle, double PTFE stem packing

Butterfly Valves

Parker sanitary Butterfly Valves are designed and manufactured to perform reliably in the most hostile production environments. Each valve is meticulously constructed using the finest materials.

Valves come standard with a 12 position handle design for multiple flow options and feature specially-designed integrated actuator mounting holes to precision align optional actuators.

Valves are precision CNC machined from 316L stainless steel and feature an I.D. finish of less than 0.6 mm R.A. Body bolts are cross-threaded to help ensure a tight seal.



TECHNICAL FEATURES

MATERIAL & ELASTOMERS	- 316L stainless steel (wetted parts), platinum cured silicon seats (others available)
AVAILABLE SIZES	- 1.0", 1.5", 2.0", 2.5", 3.0", 4.0"
SURFACE FINISH	- Less than 0.6mm (RA) mechanical sanitary polish
CONNECTIONS	- Sanitary clamp
ACTUATION	- A variety of actuation options are available. Call for details
MAX PRESSURE	- 1.0" - 4.0" to 145 PSI at 68°F (20°C)
MAINTENANCE	- No special tools required
TEMPERATURE/VACUUM	- Vacuum to 14.2 PSI at 68°F (20°C), temperature rating: 15°F to 200°F (10° to 95°C)
OTHER FEATURES	- USDA approved design, 12 position nylon reinforced handle, Derlin bushings

Disk Check Valves

Parker Disk Check Valves are utilized in a variety of processing systems to control product return. The disk opens when the pressure under the disc is greater than that existing in the upper part of the valve.

These valves are made from high-grade 316L heat traceable stainless steel. When properly installed, these valves are fully drainable and meet all sanitary standards. Valves can be easily disassembled for cleaning or maintenance.



TECHNICAL FEATURES

MATERIAL	- 316L stainless steel (construction from forged parts)		
SEAL MATERIAL	- EPDM (other materials on demand)		
SURFACE FINISH	- 32 RA mechanical sanitary polish		
CONNECTIONS	- Sanitary clamp		
MAX TEMPERATURE	- 30°F to 225°F - For higher temperatures other seals will be required		
MAX PRESSURE	- 150 PSI		
OPENING PRESSURE	1.0" 0.3 bar (4.35 PSI)	1.5" 0.2 bar (2.9 PSI)	2.0"/4.0" 0.1 bar (1.45 PSI)

Air Blow Check Valves

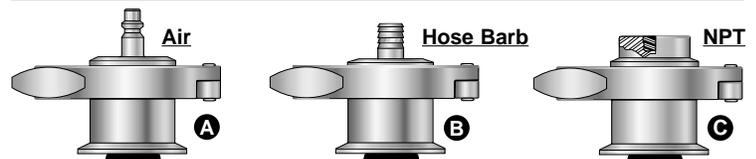
Parker Air Blow Check valves are utilized within processing systems to evacuate process lines of product or CIP solution through the use of plant air. Additionally, valves can be used for air agitation of product stored in tanks to improve quality and consistency.

Disposable filters are available to remove impurities of compressed air prior to the cleaning and drying of process lines or agitation of tanks.

Valves are machined from high-grade 316L heat traceable stainless steel and meet 3A standards. Standard configuration is sanitary clamp with quick couple air line connection and buna plug.



Available Air Line Adapters



TECHNICAL FEATURES

MATERIAL	- 316L stainless steel (construction from forged parts)
SEAL MATERIAL	- EPDM plug (PTFE spring retainer)
SURFACE FINISH	- 32 RA mechanical sanitary polish
CONNECTIONS	- Sanitary clamp (standard), w/ Adapter A - others available
WORKING TEMPERATURE	- 20°F to 240°F
REQUIRED AIR PRESSURE	- 8-10 PSI minimum (max pressure varies based on clamp style used)

Sample Valves

Parker Sample Valves allow for quick sampling from any vessel, valve or other sanitary clamp connection. These valves have very few moving parts and can be easily cleaned or sterilized between uses to prevent product build up. The special design produces minimal hold up which ensures an accurate sample each time.

Our Sample Valves are precision machined from solid 316L and feature a durable UHMW polyethylene thumbwheel which can withstand high temperatures. Right angle versions are available to serve a variety of applications.



TECHNICAL FEATURES

MATERIAL	- 316L stainless steel (construction from forged parts)
AVAILABLE SIZES	- .50, .75, 1.0, 1.5, 2.0, (3/8" barb standard. Others available upon request)
SEAL MATERIAL	- FDA Viton stem seal
SURFACE FINISH	- 25 RA mechanical sanitary polish standard
CONNECTIONS	- Sanitary clamp w/ hose barb
WORKING TEMPERATURE	- 20°F to 240°F
MAX PRESSURE	- Up to 400 PSI

Sight Glass

Parker In-Line Sight Glasses offer processors the ability to easily and safely monitor product flow. Sight Glasses are designed for use in a wide variety of applications, and are manufactured from the finest grade 316L material and polished to a sanitary finish.

Sight Glasses are available in sizes from .50" to 4.0", and can be used in CIP and other harsh processing environments.

Our special compact fractional versions are available in exotic alloys and a variety of surface finishes, including electropolishing.

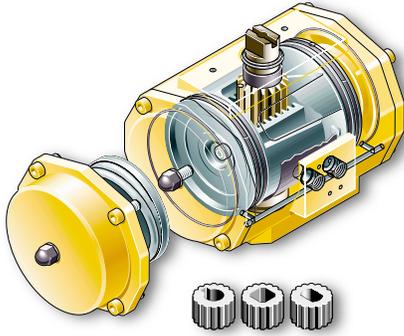


TECHNICAL FEATURES

MATERIAL	- 316L stainless steel
AVAILABLE SIZES	- .50, .75, 1.0, 1.5, 2.0, 2.5, 3.0, 4.0
SEAL MATERIAL	- Silicone (others available)
INSIDE SURFACE FINISH	- 32 RA (special finishes upon request)
OUTSIDE SURFACE FINISH	- Mechanical polish
GLASS MATERIAL	- Pyrex or Polysulfone (compact version only)

Valve Actuation

Parker has partnered with Emerson Process Management to offer actuation on our sanitary processing valves. Products include pneumatic actuators, electric actuators and a wide range of control accessories, such as switch boxes for position indication, solenoid valves for control signalling and positioners for modulating control. Product development is based on modular construction that allows for fast delivery from stock components and easy upgrade to fully-fledged control units. Actuators can be provided with controls for communication with field buses or other digital systems.

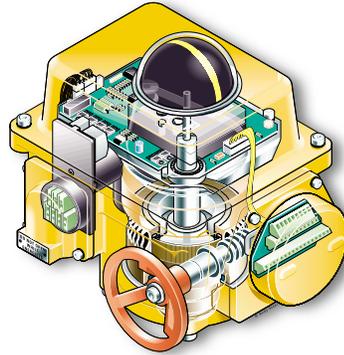


PNEUMATIC OPERATING PRINCIPLE

Pneumatic actuators come in two versions: double acting and single acting (spring return). Both versions are designed in such a way that (with the exception of the position indicator) there are no moving parts on the outside. This makes them safe, easy to install and virtually maintenance free. Furthermore, the compact rack and pinion construction means that actuators are light-weight and occupy a minimum of space.

FEATURES

- For use with ball and butterfly valves
- Can be used in other quarterturn applications, such as dampers and pressure regulators.
- Actuators are made of high duty aluminium alloys, providing optimum strength and corrosion resistance.
- Compact rack & pinion design.
- Can be supplied in single (spring return) or double acting versions.
- Choice of twelve sizes, with a torque range from 12 to 4000 Nm.
- Mounting for solenoid valves and position signalers to the NAMUR standard (VDI/VDE 3845).
- Valve mounting and drive dimensions to the ISO 5211 or DIN 3337
- Drive shaft provided with insert, for low cost, versatile direct valve mountings.
- Anti-blow-out shaft.



ELECTRIC OPERATING PRINCIPLE

The basic version of the ELQ is intended for simple open/close applications. For more sophisticated applications a large variety of options provides the solution. These options (insert modules) are easy to install on the motherboard without any special tools. The external control signals and the signals for the various insert modules are passed to the electrical motherboard via the terminal compartment, the 'serving hatch' of the actuator.

FEATURES

- Low power consumption. Saves power and cables, and therefore costs.
- 100% duty rating. Can be used for all applications, and protects against the motor overheating.
- 100% torque over the entire stroke. To cover all applications, even those valves with complex torque patterns.
- 3,600 starts per hour. Can be used for all modulating applications.
- Constant engaged manual override. Safety non-rotating hand wheel but constantly available for manual emergency control.
- Compact, balanced design. Reduces costs for pipeline support, prevents stresses in the pipe work and eliminates side loads on the valve spindle.



STANDARD SPECIFICATION

- Pressure 0.2 to 10 bar
- Temperature -20°C to +80°C
- Materials Housing: Aluminium alloy Shaft: Hard anodised aluminium alloy
- Finish 2-component polyurethane
- Lifespan Minimum of 500,000 cycles

HOW TO ORDER

STEP 1: Select your valve style (Ball or Butterfly).

STEP 2: Select Pneumatic or Electric Actuation.

STEP 3: Choose any required options and the specifications of those options:

- Solenoid Valves
- Position Indicators
- Limit Switches

STEP 4: Provide any available product or application details so that we can more accurately size your actuator:

- Product
- Temperature
- Viscosity
- Plant Air Pressure



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