



# **Performance Stainless Valves & Flow Components**

*Catalog 4270-VFC  
November 2006*



**Performance  
Stainless!** 

## 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. Full MTR's and additional surface finishes are available.



For dimensional and part data  
order cut sheet 4270-SV



### TECHNICAL FEATURES

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



For dimensional and part data  
order cut sheet 4270-PSG



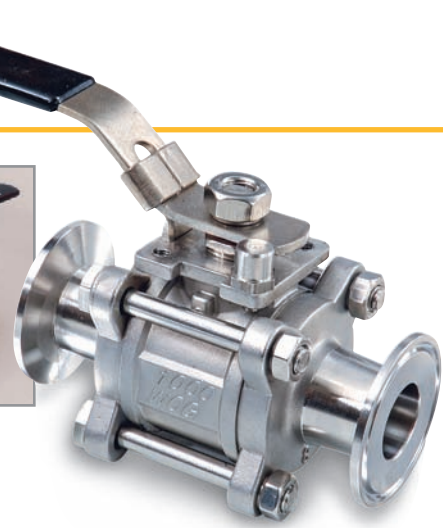
### TECHNICAL FEATURES

<b>MATERIAL</b>	- 316L stainless steel
<b>AVAILABLE SIZES</b>	- .50", .75", 1.0", 1.5", 2.0", 2.5", 3.0", 4.0"
<b>SEAL MATERIAL</b>	- Silicone (others available)
<b>SURFACE FINISH</b>	- 32 RA (special finishes upon request)
<b>WORKING TEMPERATURE</b>	- 20°F to 240°F
<b>GLASS MATERIAL</b>	- Pyrex (Polysulfone for fractional sizes only)

## 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 a wide variety of processing environments. 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. Valves can be matched with a variety of actuators to accurately control the flow of product (see valve actuation).



For dimensional and part data  
order cut sheet 4270-BVCF



### TECHNICAL FEATURES

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

## Butterfly Valves

Parker sanitary Butterfly Valves are designed and manufactured to perform reliably in a wide variety of processing 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 quickly 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.



For dimensional and part data  
order cut sheet 4270-BFLY



### TECHNICAL FEATURES

<b>MATERIAL &amp; ELASTOMERS</b>	- 316L stainless steel (wetted parts), platinum cured silicon seats (others available)
<b>AVAILABLE SIZES</b>	- .05", .75", 1.0", 1.5", 2.0", 2.5", 3.0", 4.0"
<b>SURFACE FINISH</b>	- Less than 0.6mm (RA) mechanical sanitary polish
<b>CONNECTIONS</b>	- Sanitary clamp and butt weld
<b>ACTUATION</b>	- Integrated mounting slots accept a variety of Parker actuators
<b>MAX PRESSURE</b>	- 1.0" - 4.0" to 145 PSI at 68°F (20°C)
<b>MAINTENANCE</b>	- No special tools required
<b>TEMPERATURE/VACUUM</b>	- Vacuum to 14.2 PSI at 68°F (20°C), temperature rating: 15°F to 200°F (10° to 95°C)
<b>OTHER FEATURES</b>	- 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.



For dimensional and part data  
order cut sheet 4270-PDCV



### TECHNICAL FEATURES

<b>MATERIAL</b>	- 316L stainless steel (construction from forged parts)		
<b>AVAILABLE SIZES</b>	- .50", .75", 1.0", 1.5", 2.0", 2.5", 3.0"		
<b>SEAL MATERIAL</b>	- EPDM (other materials on demand)		
<b>SURFACE FINISH</b>	- 32 RA mechanical sanitary polish - I.D.		
<b>CONNECTIONS</b>	- Sanitary clamp		
<b>WORKING TEMPERATURE</b>	- 30°F to 225°F - For higher temperatures other seals will be required		
<b>MAX PRESSURE</b>	- 150 PSI		
<b>OPENING PRESSURE</b>	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.

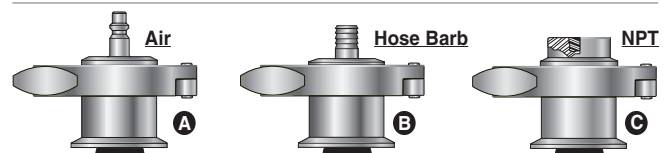
Valves are machined from high-grade 316L heat traceable stainless steel and meet 3A standards. Standard configuration is sanitary clamp with quick couple air line connection and buna plug.



For dimensional and part data  
order cut sheet 4270-ABC



### Available Air Line Adapters



### TECHNICAL FEATURES

<b>MATERIAL</b>	- 316L stainless steel (construction from forged parts)		
<b>AVAILABLE SIZES</b>	- 1.0", 1.5", 2.0", 2.5", 3.0" (air connection standard)		
<b>SEAL MATERIAL</b>	- EPDM plug (PTFE spring retainer)		Ⓐ
<b>SURFACE FINISH</b>	- 32 RA mechanical sanitary polish		
<b>CONNECTIONS</b>	- Sanitary clamp (standard), w/ Adapter Ⓐ - others available		
<b>WORKING TEMPERATURE</b>	- 20°F to 240°F		
<b>REQUIRED AIR PRESSURE</b>	- 8-10 PSI minimum (max pressure varies based on clamp style used)		

# Valve Actuation

Parker offers a variety of actuation options for use with our sanitary processing valves. Products include pneumatic actuators, electric actuators and a wide range of control accessories. Product development is based on modular construction that allows for fast delivery from stock components and easy upgrade to fully-fledged control units.

## For Ordering Information:

Call your local Parker distributor or Instrumentation Sales at (256) 881-2040.



## PNEUMATIC ACTUATORS



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 lightweight and occupy a minimum of space.

### FEATURES & SPECIFICATIONS

- For use with ball and butterfly valves.
- Actuators are made of high duty aluminium alloys, providing optimum strength and corrosion resistance.
- Mounting for solenoid valves and position signalers to the NAMUR standard (VDI/VDE 3845).
- Mounting standard (ISO 5211), Drive dimensions (DIN 3337).
- Drive shaft can be provided with insert, for low cost, versatile direct valve mountings.
- Anti-blow-out shaft.

## ELECTRIC ACTUATORS



The basic version of the Electric Actuator is intended for simple open/close applications. For more sophisticated applications, a variety of options provides the solution. These include positioner servo boards, output transmitters, LCD displays and local/remote control stations. The unit is also available in explosion proof housings for hazardous areas and is also available with DC motors.

### FEATURES & SPECIFICATIONS

- Low power consumption.
- Torque ranges to 26,000 inch pounds.
- Hard anodized powder coated housing for atmospheric corrosion protection.
- Manual overrides standard on all models. All models except the smallest have pad lockable override systems.
- Heater and thermostat standard for humid environments.
- Mechanical torque sensing for overload conditions.
- Large dial indicator for greater visibility
- Removable drive bushing for custom machining.

## STAINLESS STEEL ACTUATORS



Stainless steel spring return actuators that can be mounted in the fail open or fail closed position. The actuators are suitable for wash-down areas. The housing is 316 SS and can be ordered with or without internal controls. Control options includes an integral pilot solenoid valve and two limit switches. Both switches and solenoid are pre-wired to an internal terminal. Two additional limit switches are an available option. For use on all butterfly valves and ball valves up to 1.5".

### FEATURES & SPECIFICATIONS

- Easily mounts to ball or butterfly valves
- Suitable for wash-down applications
- All 316 SS construction
- Easy thumb screw access to controls
- Compact spring return design
- Optional proximity sensors
- Optional internal pilot solenoid

## OPTIONAL ACCESSORIES



Limit Switches



Positioners



Pilot Solenoid

Actuators can be provided with controls for communication with field buses or other digital systems. Optional accessories include switch boxes for position indication, solenoid valves for control signalling and positioners for modulating control.

- Solenoid Valves
- Position Indicators
- Limit Switches
- Positioners
- Lock-Out Devices
- Position transmitters

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*Performance*  
*Stainless* 

anything   
Possible.™

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