



SANITARY CONTROL VALVES & REGULATORS

REPUTATION BUILT ON
QUALITY, DEPENDABILITY, SERVICE.



www.cashco.com
Innovative Solutions



Get Consistent Quality

By involving every employee in our ISO 9001:2000 Quality Assurance Program, you can count on the quality we provide you. We have coordinated our business systems, invested in state-of-the-art machine tools, and built an extensive component inventory so we can consistently provide cost-effective solutions and on-time delivery to meet your replacement or project requirements — regardless of size or complexity.

Make the Right Choice

“We simply make it right” by putting your needs first. The next time you specify control valves, regulators or you need a replacement fast, call the supplier that makes it right. Rely on Cashco for your single-source convenience. Great service, field-proven quality, and timely delivery makes Cashco the right choice.

Select Control Valves & Regulators

FOR SPECIALIZED OR UTILITY SERVICE

We manufacture a broad line of throttling rotary and linear control valves, pressure reducing regulators, and back pressure regulators in line sizes from 1/4 inch to 10 inches and Cv ranges from .002 to 4,406. Models are available to handle slurries, cryogenic service, and corrosive fluids; to withstand high temperatures and pressures; and to maximize the reduction of fugitive emissions. Contact Cashco for complete product information.



**“WE BUILD OUR
REPUTATION ON
DEPENDABILITY.”**

"TABLE OF CONTENTS"

Sanitary Reducing Regulators

Model C-CS	5
Model C-PRV	6
Model 5381	6
Model P1	7
Model P2	7
Model P3	7
Model P4	8
Model P5	8

Sanitary Back Pressure Regulators

Model C-BPV	9
Model 3171	9
Model B2	10

Sanitary Control Valves

Model SCV-30	10
Model SCV-S	11

Controllers

Model 764P-37	11
---------------------	----





Pressure Reducing

At Cashco we have been creating innovative pressure control solutions to meet the needs of American industry since 1920. Today you'll find the Cashco name on an extensive line of self-contained regulators, control valves, and related components.

Cashco regulators and control valves are in use worldwide, covering a wide range of applications. We believe our quality is surpassed only by the service we provide to ensure you get the product you need — when you need it.

When you contact Cashco or our representatives, you will discover the care we take to help you specify the best valve for your application and in the speed with which we handle your order — large or small.

If you don't find what you're looking for in the following pages, we will be glad to provide you with personal assistance and technical literature. Just call (785) 472-4461 or fax (785) 472-3539 with your request. You can also e-mail us at: sales@cashco.com.



"SANITARY PRESSURE REDUCING REGULATORS"

Cashco Model C Regulators were among the first self-contained regulators to meet pharmaceutical and food industry standards for sanitary liquid, gas, and clean steam service. Superior materials and construction keep them at the top of their class — saving time, maintenance expense, and replacement costs even in the most demanding applications. They require a minimum of spare parts and less maintenance than conventional control valves.

All Model C Regulators feature stainless steel bodies. Interior body surfaces are electro-polished to a 10 micro-inch Ra finish for exceptional smoothness. There are no welds to hold fluids or contaminants, nor cracks or crevices where corrosion or bacterial growth can start. The smooth surfaces and angle-style design facilitate self-draining, and the patented lock-open feature allows for convenient CIP and SIP.



MODEL C REGULATORS

- Easy installation
- In-line CIP/SIP
- Low maintenance
- Self-draining design
- Minimal spare parts
- Superior performance and durability



MODEL C-CS

The Model C-CS Self-Contained Pressure Reducing Regulator is designed primarily for steam control in sanitary piping systems. It can also be used for clean gas and liquid applications. Body, diaphragm, stem, and plug are all 316L SST. The unit has a maximum inlet pressure of 150 psig and can maintain outlet pressure between 10 and 75 psig. Special units are available for use under intermittent vacuum conditions.

**Body sizes:**

1", 1-1/2", 2", 3"

Body materials:

1" Investment Cast 316L SST
1"-3" Forged 316L SST

Trim:

316L SST

Pressure:

Inlet to 150 psig, outlet to 75 psig

Temperature:

To 366° F

Capacity:

To 27 Cv



MODEL C-PRV

The Model C-PRV Self-Contained Pressure Reducing Regulator is designed for liquid or gaseous fluids used in sanitary biotech process piping. It can handle a maximum 175 psig inlet pressure and can maintain outlet pressures from 2 to 125 psig. The patented Model C lock-open feature allows CIP with cleaning solution up to 50 psig and SIP up to 20 psig. Optional diaphragms are made from FDA-approved materials. Model C-PRV is 3A-approved.

**Body sizes:**

1", 1-1/2", 2", 3"

Body materials:1" Investment Cast 316L SST,
1"-3" Forged 316L SST**Trim:**Diaphragm - EPDM, FK, FKM or Gylon
Stem and plug, 316L SST**Pressure:**

Inlet to 175 psig, outlet to 125 psig

Temperature:

To 300° F

Capacity:

To 25 Cv

Body size:

1/2"

Body material:

316L SST barstock

Trim:Diaphragm - 302 SST or EPDM
Seat - 316 SST or EPDM**Pressure:**

Inlet to 600 psig, outlet to 200 psig

Temperature:

To 400° F

Capacity:

To 0.5 Cv



MODEL 5381

Model 5381 Pressure Reducing Regulator is ideally suited for clean gas, clean liquid, and clean steam applications. It can handle inlet pressures up to 600 psig and maintain outlet pressure from 5 to 200 psig.

To minimize sanitation problems associated with porosity and welds, Model 5381 is machined from 316L SST barstock, polished to a 32 micro-inch Ra finish internally, and electro-polished.

"SANITARY PRESSURE REDUCING REGULATORS"

Body sizes:

1/4", 3/8"

Maximum Cv:

.02, .06 and .20

Materials:

Body/Spring chamber 316L SST/302 SST
Brass/6061 AL

End connections:

FNPT, Tube End

Temperature range:

-45° to 575° F (-42.7 to 301 C)

Pressures:

Max Inlet: 3,600 psig (248.2 Barg)

Max Outlet: 1-750 psig (.07-51.7 Barg)

Options:

Relief Valve



Cashco, Inc. d/b/a
Sensiflo™

MODEL P1

The Model P1 is designed for gases and liquids with inlet pressures up to 3600 psig (248 Barg). Standard adjustable outlet ranges from 1-10 psig (.07-.69 Barg) thru 10-750 psig (.69-51.7 Barg). Flow coefficient of 0.02, 0.06, and 0.20 available. This versatile point of use regulator can be ordered with a variety of options to meet your system demands. Standard construction includes a 40 micron integral filter, adjustment knob, and diffusion resistant stainless steel diaphragm.

The Model P1 is a single stage pressure reducing regulator.

Cashco, Inc. d/b/a
Sensiflo™

MODEL P2

The Model P2 is designed for gases with inlet pressures up to 3600 psig (248 Barg). Standard adjustable outlet ranges from 1-10 psig (.07-.69 Barg) thru 10-750 psig (.69-51.7 Barg). Flow coefficient of 0.02, 0.06, and 0.20 available. This versatile cylinder gas regulator can be ordered with a variety of options to meet your system demands. Standard construction includes a 40 micron integral filter, adjustment knob, and diffusion resistant stainless steel diaphragm. Gauges and CGA fittings are optional.



The Model P2 is a single stage cylinder gas pressure reducing regulator.

Body size:

1/4"

Maximum Cv:

.02, .06 and .20

Materials:

Body/Spring chamber 316L SST/302 SST
Brass/6061 AL

End connections:

FNPT

CGA End Connection

Temperature range:

-45° to 575° F (-42.7 to 301 C)

Pressures:

Max Inlet: 3,600 psig (248.2 Barg)

Max Outlet: 1-750 psig (.07-51.7 Barg)

Options:

Packed Valve, Diaphragm Valve

Body size:

1/4"

Maximum Cv:

.02, .06 and .20

Materials:

Body/Spring chamber 316L SST/302 SST
Brass/6061 AL

End connections:

FNPT

CGA End Connection

Temperature range:

-45° to 575° F (-42.7 to 301 C)

Pressures:

Max Inlet: 3,600 psig (248.2 Barg)

Max Outlet: 1-500 psig (.07-34.5 Barg)

Options:

Packed Valve, Diaphragm Valve



Cashco, Inc. d/b/a
Sensiflo™

MODEL P3

The Model P3 is designed for gases with inlet pressures up to 3600 psig (248 Barg). Standard adjustable outlet ranges from 1-10 (.07-.69 Barg) thru 10-750 psig (.69-51.7 Barg). Flow coefficient of 0.02, 0.06, and 0.20 available. This versatile cylinder gas regulator can be ordered with a variety of options to meet your system demands. Standard construction includes a 40 micron integral filter, adjustment knob, and diffusion resistant stainless steel diaphragm. Gauges and CGA fitting are optional.

The Model P3 is a two stage cylinder gas pressure reducing regulator.

Cashco, Inc. d/b/a

Sensiflo™

MODEL P4

The Model P4 is designed for gases with inlet pressures up to 3600 psig (248 Barg). Standard adjustable outlet ranges from 1-10 psig (.07-.69 Barg) thru 5-500 psig, (.34-34.4 Barg). Flow coefficient of .6 Cv available. This versatile point of use regulator can be ordered with a variety of options to meet your system demands. Standard construction includes a 40 micron integral filter, adjustment knob, and diffusion resistant stainless steel diaphragm.



Body sizes:

3/8", 1/2"

Maximum Cv:

.6

Materials:

Body/Spring chamber 316L SST/302 SST
Brass/6061 AL

End connections:

FNPT, Tube End

Temperature range:

-40 to 175F (-42.7 to 135C)

Pressures:

Max Inlet: 3,600 psig (248.2 Barg)
Max Outlet: 5-500 (.34-34.4 Barg)

Options:

Relief Valve

The Model P4 is a balanced pressure reducing regulator.

Body size:

1/4"

Maximum Cv:

.06

Materials:

Body/Spring chamber 316L SST/302 SST

End connections:

NPT

Temperature range:

-15° to 175° F (-26 to 79.44 C)

Pressures:

Max Inlet: 3,600 psig (248.2 Barg)
Max Outlet: 50-1,500 psig (3.4-103 Barg)

Options:

Mounting Bracket, Panel Mount



Cashco, Inc. d/b/a

Sensiflo™

MODEL P5

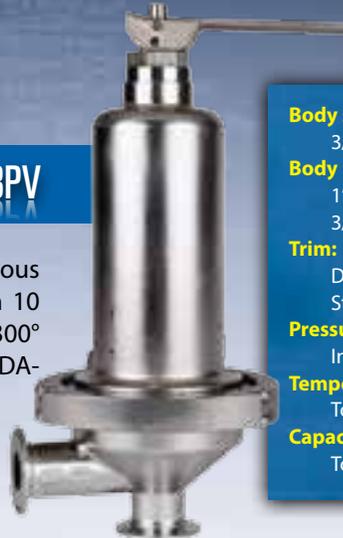
The Model P5 is a piston designed regulator for gases and liquids with inlet pressures up to 3600 psig (248 Barg). Standard adjustable outlet ranges from 50-1500 psig (3.4-103 Barg). Flow coefficient of 0.06. This general purpose use regulator can be ordered with a variety of options to meet your system demands. Standard construction includes a 40 micron integral filter, adjustment knob, and diffusion resistant stainless steel diaphragm.

"SANITARY BACK PRESSURE REGULATORS"



MODEL C-BPV

The Model C-BPV controls inlet pressures in liquid and gaseous (non-steam) applications. Its range of set pressures is from 10 to 125 psig, and its maximum operating temperature is 300° F. Optional diaphragms, plugs, and stems are made from FDA-approved materials. Model C-BPV is also 3A-approved.

**Body sizes:**

3/4", 1", 1-1/2", 2", 3"

Body materials:

1" Investment Cast 316L SST

3/4"-3" Forged 316L SST

Trim:

Diaphragm - EPDM, FKM, Silicone or Gylon

Stem and plug, 316L SST

Pressure:

Inlet to and outlet to 150 psig

Temperature:

To 300° F

Capacity:

To 27 Cv

**Body size:**

1/2"

Body material:

316 SST barstock

Trim:

Diaphragm - 302 SST or EPDM

Seat - 316 SST or EPDM

Pressure:

Inlet to 200 psig

Temperature:

To 400° F

Capacity:

To 0.3 Cv



MODEL 3171

Model 3171 is designed to handle low to mid-range flow rates. It can control inlet pressure to set point levels between 5 and 200 psig. Stainless steel body construction from 316 barstock virtually eliminates porosity and corrosion.

The Model B2 is a back pressure regulator designed for gases and liquids with control ranges up to 750 psig (51.7 Barg). Flow coefficient of 0.10, 0.20, and 0.30 are available. This versatile back pressure regulator can be ordered with a variety of options to meet your system demands. Standard construction includes an adjustment knob and diffusion resistant stainless steel diaphragm.



- Body sizes:**
1/4", 3/8"
- Maximum Cv:**
0.1, 0.2 and 0.3
- Materials:**
Body/Spring chamber 316L SST/302 SST
Brass/6061 AL
- End connections:**
FNPT, Tube End
- Temperature range:**
-45° to 575° F (-42.7 to 301 C)
- Set pressures:**
Springs for 1-750 psig (.07-51.7 Barg)

"SANITARY CONTROL VALVES"

- Body sizes:**
3/4", 1", 1-1/2"
- Body form:**
Straight-thru globe and angle body
- Body material:**
Forged 316L SST
- Trim:**
316L SST
- Pressure:**
-7.5 psig to 75 psig
- Temperature:**
To 300° F
- Capacity:**
To 11.7 Cv
- Rangeability:**
30:1
- Actuator:**
Spring-diaphragm type; field reversible action
- Valve action:**
Fail open or fail closed



The Model SCV-30 is a sanitary globe or angle style control valve for throttling or on/off service. The Model SCV-S also includes on/off steam service.

The Model SCV-30 body offers pressures to 75 psig. It utilizes a cost effective single-spring actuator designed for fail open or fail-closed valve action. Accessories include pneumatic or electro-pneumatic positioners.

"SANITARY CONTROL VALVES"



MODEL SCV-S

Model SCV-S is a throttling pneumatically actuated control valve designed primarily for clean steam service. It can also be used in liquid and gas applications. The body and plug are 316L SST. Model SCV-S utilizes two spring-energized stem seals to prevent leakage into the atmosphere.



- Body sizes:**
3/4", 1", 1-1/2"
- Body form:**
Straight-thru globe and angle body
- Body material:**
Forged 316L SST
- Trim:**
316L SST
- Pressure:**
Full vacuum to + 150 psig
- Temperature:**
To 366° F
- Capacity:**
To 12 Cv
- Rangeability:**
30:1
- Actuator:**
Spring-diaphragm type; field reversible action
- Valve action:**
Fail open or fail closed

"CONTROLLERS"

Pressure Connection:
1"

Sensing Diaphragm:
316 SST Wetted Parts

Diaphragm Casing Materials:
Ductile Iron-ASTM A395
SST - ASTM A479

Temperature Range:
-20° to 180° F

Output Signal:
3-15 psig

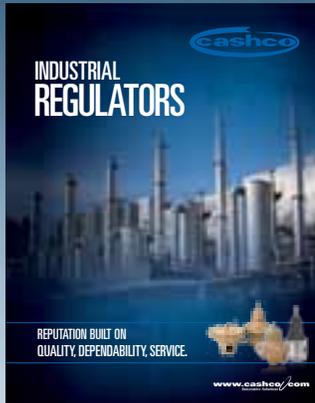
Supply Pressure:
18-20 psig



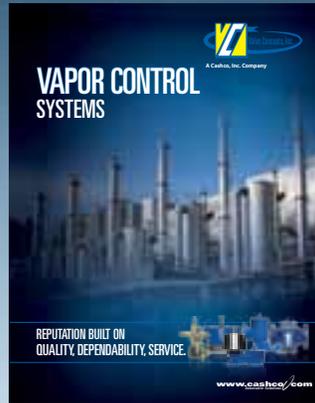
MODEL 764P-37

The Model 764P-37 is a sanitary pressure controller for measuring controlled pressure. The Model 764P-37 Controller includes a SST sensing head with a 1" Tri-Clamp® process connection. It is designed for use in clean steam and other sanitary biotechnological process piping systems. The Model 764P-37 measures the controlled pressure and develops a pneumatic output signal that varies linearly as the controlled pressure changes. It controls process pressures between 1-30, 20-100 and 50-150 psig.

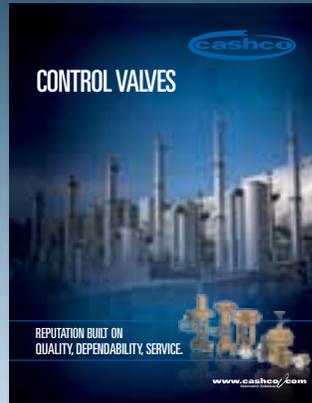
Check out the other high quality product lines available exclusively from Cashco.



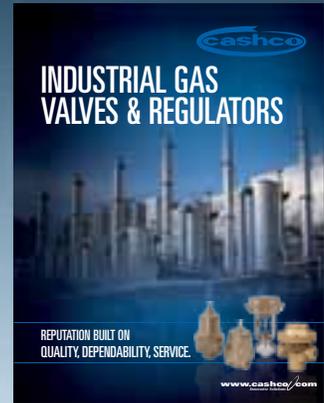
Industrial Regulators



Vapor Control Systems



Control Valves



Industrial Gas Valves & Regulators



Cashco, Inc.

607 West 15th Street • P.O. Box 6 • Ellsworth, Kansas 67439

Ph. (785) 472-4461 • Fax: (785) 472-3539

www.cashco.com
Innovative Solutions

