## Piston actuated valves for on/off control

Spirax Sarco offers a high quality product that will meet the tough requirements of your application. Its simple rock-solid design combined with ISO9001 manufacturing processes will insure that these valves will meet your highest expectations. Also, our highly qualified staff is always ready to assist you with your application.





- Solid construction combined with stainless steel or bronze body and Teflon seals allow their use in most any industrial applications.
- Our special construction permits the use of these valves with a broad range of media including steam, corrosive liquids, gases and light slurry material.
- A line pressure range that is the broadest in the industry: 0-290 psig Vacuum to 29" hg.
- A highly polished valve stem having self-aligning glands combined with floating seals give maximum integrity and exceptionally long cycle life.

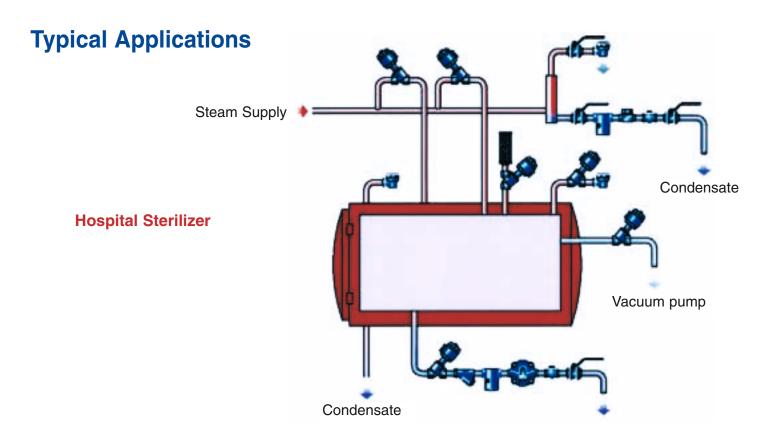
Hospital sterilizers

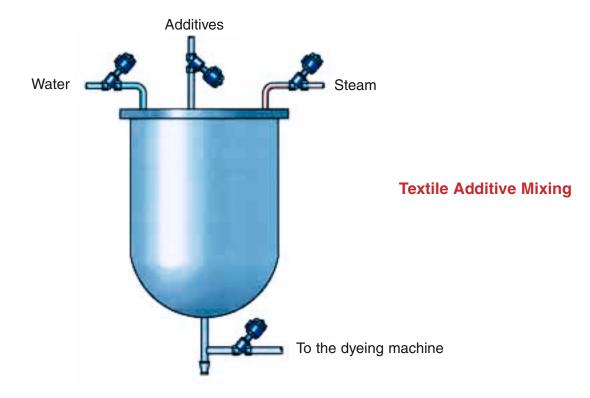
- Available with a low cost custom designed "solenoid operated" Pilot Valve.
- These valves serve the following industries:

Brewing Laundries
Textiles Rubber
Cosmetics Dairy
Pharmaceuticals Catalog houses

Chemical processes

Rubber Food and beverage
Dairy General process
Catalog houses Pulp and paper
Autoclaves and many more...



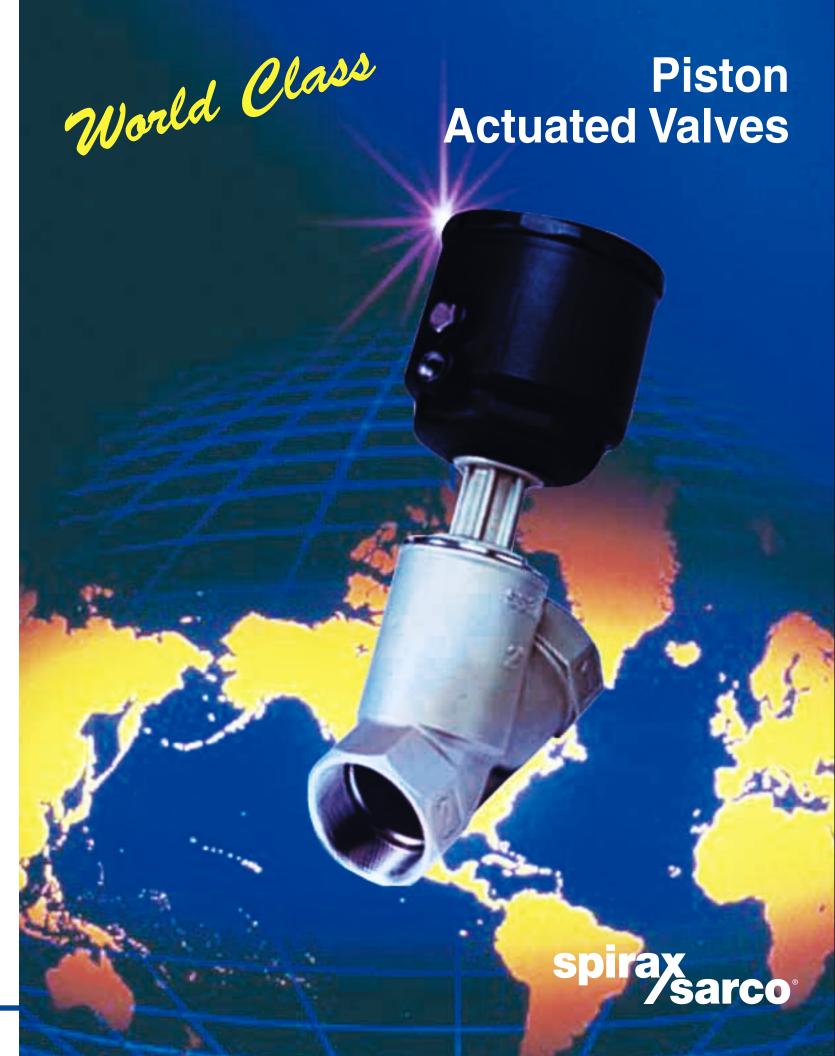




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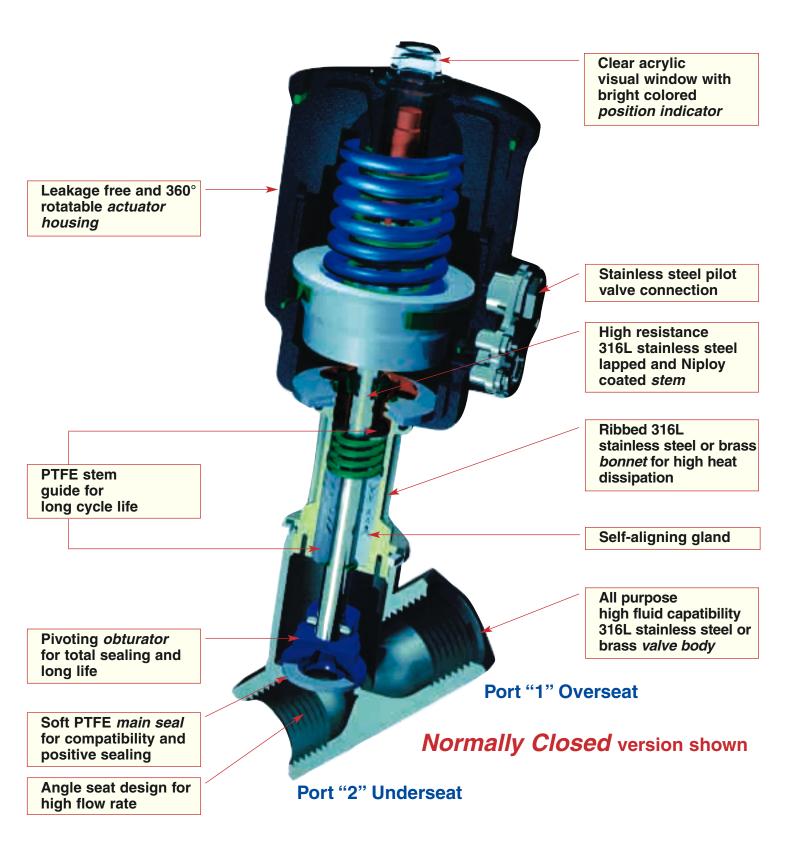
www.spiraxsarco.com/us

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The Spirax Sarco range of Piston Actuated Valves provide a competitive solution for on/off applications by combining many key benefits in each valve.

These elements sustain a product that encompasses a wide range of industrial applications.



# **Product Range**

### **Piston Actuated Valves**

Туре	Function	Flow Direction	Range NPT	Actuator Diameter mm (inches)	Pilot Ports	Body Material
PF51G-1NC	Normally Closed	Overseat	1/2" - 1"	45mm (1-3/4")	1/8"	Bronze
PF51G-2NC	Normally Closed	Overseat	1/2" - 2"	63mm (2-1/2")	1/4"	Bronze
PF51G-3NC	Normally Closed	Overseat	1" - 2"	90mm (3-9/16")	1/4"	Bronze
PF51G-1NO	Normally Open	Underseat	1/2" - 1"	45mm (1-3/4")	1/8"	Bronze
PF51G-2NO	Normally Open	Underseat	1/2" - 2"	63mm (2-1.2")	1/4"	Bronze
PF51G-3NO	Normally Open	Underseat	1" - 2"	90mm (3-9/16")	1/4"	Bronze
PF51G-1BD	Bi-directional/NC	Overseat/Underseat	1/2" - 1"	45mm (1-3/4")	1/8"	Bronze
PF51G-2BD	Bi-directional/NC	Overseat/Underseat	1/2" - 2"	63mm (2-1/2")	1/4"	Bronze
PF51G-3BD	Bi-directional/NC	Overseat/Underseat	1" - 2"	90mm (3-9/16")	1/4"	Bronze
			•		•	
PF61G-1NC	Normally Closed	Overseat	1/2" - 3/4"	45mm (1-3/4")	1/8"	Stainless Steel
PF61G-2NC	Normally Closed	Overseat	1/2" - 2"	63mm (2-1/2")	1/4"	<b>Stainless Steel</b>
PF61G-3NC	Normally Closed	Overseat	1" - 2"	90mm (3-9/16")	1/4"	<b>Stainless Steel</b>
PF61G-1NO	Normally Open	Underseat	1/2" - 3/4"	45mm (1-3/4")	1/8"	Stainless Steel
PF61G-2NO	Normally Open	Underseat	1/2" - 2"	64mm (2-1/2")	1/4"	Stainless Steel
PF61G-3NO	Normally Open	Underseat	1" - 2"	90mm (3-9/16")	1/4"	Stainless Steel
PF61G-1BD	Bi-directional/NC	Overseat/Underseat	1/2" - 3/4"	45mm (1-3/4")	1/8"	Stainless Steel
PF61G-2BD	Bi-directional/NC	Overseat/Underseat	1/2" - 2"	63mm (2-1/2")	1/4"	Stainless Steel
PF61G-3BD	Bi-directional/NC	Overseat/Underseat	1" - 2"	90mm (3-9/16")	1/4"	Stainless Steel

#### **Pilot Valves**

Туре	Actuator Diameter	Pilot Port	Voltage	Туре	Actuator Diameter	Pilot Port	Voltage
DM11N			240 VAC	DM21N			240 VAC
DM12N	45mm	1/8"	120 VAC	DM22N	63mm	1/8"	120 VAC
DM13N	(1-3/4")	NPT	24 VAC	DM23N	(2-1/2")	NPT	24 VAC
DM14N			24 VDC	DM24N			24 VDC

<b>)</b>	Туре	Actuator Diameter	Pilot Port	Voltage
)	DM31N			240 VAC
)	DM32N	90mm	1/8"	120 VAC
)	DM33N	(3-9/16")	NPT	24 VAC
)	DM34N			24 VDC

## **How To Order . . .**

#### Piston Actuated Valve

PF61G-2NC-R-1/2"NPT PF — Piston Accuated Valve **Port Size** Fast functioning 1/2" through 2" NPT **Body Material** Options Blank — no options 51 — Bronze body 61 — 316L Stainless Steel R - Stroke regulator I - Travel switch G - PTFE soft seal **Function** NC - Normally Closed **Actuator Diameter** NO — Normally Opened 1 — 45mm (1-3/4") BD — Bi-directional 2 — 63mm (2-1/2") (Normally Closed) 3 — 90 mm (3-9/16")

PF61G-2NC- 1-1/2" NPT

PF51G-2NO- I-2" NPT

Pilot Valve

DIVIZ	2N
DM — Pilot Valve	N — NPT
series	pipe size
Actuator diameter	Voltage
1 — <i>45mm (1-3/4")</i>	1 — 240 VAC
2 — 63mm (2-1/2")	2 — 120 VAC
3 — 90 mm (3-9/16")	3 — <i>24 VAC</i>
	4 — 24 VDC

Stainless steel, 63mm actuator, normally closed, 1-1/2" NPT ports

Bronze, 90mm actuator, normally open, travel switch, 2" NPT ports

Note: When ordering the Piston Actuated Valve together with Pilot Valve, order both part numbers separately.

PF61G-2BD- 1" NPT DM22N Stainless stel, 63mm actuator, bi-directional, 1" NPT ports

with a 120 VAC Pilot Valve

# **General Information**

### **Standard**

Functions: Normally Closed, Normally Open and Bi-directional
 Media: Steam, corrosive liquids, inert gases & light slurry material

• Media temperature: 14°F to 356°F.

• Media pressure: 0 — 290 psi max / vacuum to 29" Hg.

• Pilot media: Air, inert gas & water

Pilot media pressure: 150 psi max.Seals: PTFE & Viton

• Wetted material: Teflon, Niploy Coating (Nickel), Bronze/Brass or 316L Stainles Steel

### **Option**

Pilot Valve Solenoid operated Model "DM" Pilot Valves mount directly to the actuator head and provides operating pressure to the Piston Actuated Valve. These valves are available in standard AC and DC voltages along with an IP65 strain relief connector. A manual override turn button is provided as standard.

Ordered Separately



Stroke regulator\*

Provides manual control of flow through the Piston Actuated Valve. It is adjustable throughout the flow range of the valve. Can

also provide manual shutoff on normally open valves.

Order with Designate "R"



Travel switch\*

Provides indication of an oper or closed valve through a magnetic reed switch with volt free contacts.

Order with Designate "I"

\* Not available with 45mm diameter actuators