

# spirax sarco

## BCV

## Blowdown Control Valves DN15 to DN50 (½" to 2")

### Description

Spirax Sarco's BCV blowdown control valves are manufactured using the market proven Spira-trol™ body. These valves have been specifically designed for the blowdown of steam boilers or for other high pressure drop, low flow applications, and are generally used with a blowdown controller as part of an automatic BCV control system. The flowrate is adjusted by setting the stroke of the valve spindle. These valves have been specially designed to minimize seat erosion and ensure consistent tight shut-off. A ¼" BSP plug at the base of the valve may be removed to allow a sample cooler to be fitted.

### Two versions are available:

- Electrohydraulically actuated BCV blowdown control valve.
- Pneumatically actuated BCV blowdown control valve.

### Available models:

Material	Connections			
	Screwed	Socket weld	Flanged	Butt weld
Carbon steel	<b>BCV41</b>	<b>BCV42</b>	<b>BCV43</b>	<b>BCV44</b>
Stainless steel	<b>BCV61</b>	<b>BCV62</b>	<b>BCV63</b>	<b>BCV64</b>
SG iron	<b>BCV71</b>		<b>BCV73</b>	
Alloy steel		<b>BCV82</b>	<b>BCV83</b>	<b>BCV84</b>

### Spira-trol™ valve body options

<b>Stem sealing</b>	Graphite packing	High temperature applications
<b>Seating</b>	Hard facing	316L stainless steel with Stellite 6 facing

BCV blowdown control valves are compatible with the following actuators and positioners:

Version	Actuator	Positioners
<b>Electric</b>	AHL1 series	
<b>Pneumatic</b>	PN9___ series	PP5 (pneumatic)
		EP5 (electropneumatic)
		ISP5 (intrinsically safe electropneumatic)
		SP200is, SP400 and SP500 (microprocessor based electropneumatic)
		SP300 (digital communications)

### Standards

These products fully comply with the requirements of the European Pressure Equipment Directive 97 / 23 / EC.

### Certification

These products are available with material certification to EN 10204 3.1. **Note:** All certification / inspection requirements must be stated at the time of order placement.

### Operation

**BCV blowdown control valves** are supplied loaded to the closed position.

**Electrical version:** When the power is connected to the actuator the valve opens to the position set by the internal limit switch.

**Pneumatic version:** When the solenoid valve opens, air is admitted to the actuator activating the valve to open to the selected stroke.

### Size and pipe connections

½", ¾", 1", 1¼", 1½" and 2" Screwed BSP or NPT, Socket weld and Butt weld.

DN15, DN20, DN25, DN32, DN40 and DN50 Flanged:  
EN 1092 PN25, PN40, PN63 and PN100  
ASME class 125, 150, 250, 300 and 600  
JIS/KS 10K, 20K, 30K and 40K

