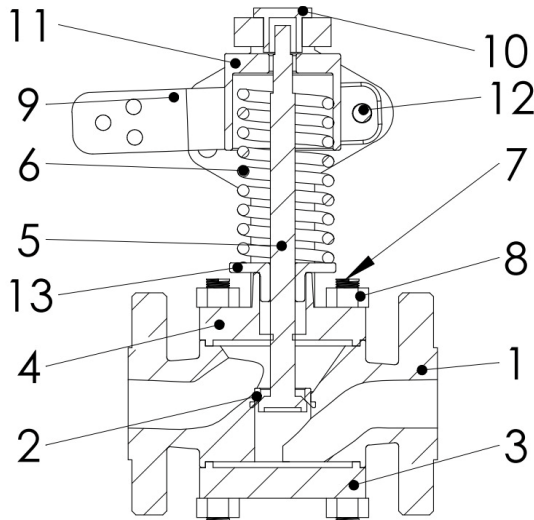


## Automatic or Manual Actuated Boiler Blowdown Valves BV200, BV200A

Local regulations may restrict the use of this product to below the conditions quoted. In the interests of development and improvement of the product, we reserve the right to change the specification without notice.



### Description

The BV2000 is specifically designed for the removal of suspended /deposited solids and water from the bottom of steam boilers. The BV2000 is available in air/ water actuated and manual versions. The air/ water-actuated version is supplied with a manual hand lever. The valve is spring-to-close on power failure and the manual version can easily be upgraded to an automatic version. When used with a Fluid Line blowdown controller the automatic version provides timed control of blowdown, ensuring that the recommended blowdown occurs with the minimum of heat loss and avoids duplication and omissions. The valve can be fitted with a mechanical switchbox. This can be linked to the blowdown controller or a BMS system to indicate when the valve has not closed. An optional 1/4" 3-way solenoid valve may be directly mounted on the side of the actuator.

### Principal features:

- Engineered for the specific application of bottom blowdown.
- Easily upgraded from manual to automatic operation.
- Dedicated self-adjusting and self-cleaning spindle seals.
- Flow pressure assists closing.

### Technical data

Type	
<b>Solenoid</b>	Supply voltage 24 Vdc 24 Vac, 230 Vac or 110 Vac
<b>Blowdown</b>	Supply voltage 230 Vac or 115 Vac
<b>Mechanical</b>	Supply voltage 600 Vac and 250 Vdc max

### Design conditions

Body design conditions		PN40
PMA	Maximum allowable pressure	40 bar g @ 120°C
TMA	Maximum allowable temperature	300°C @ 27.5 bar
	Minimum allowable temperature	0°C
PMO	Maximum operating pressure	32 bar g @ 239°C
TMO	Maximum operating temperature	239°C @ 32 bar g
Ambient operating temperature range		-20°C to +90°C
Maximum operating air / water pressure		6 bar g

### Differential pressure

(DP) across the valve		Minimum air pressure
Minimum air pressure	10 bar g	4.0 bar g
	15 bar g	4.5 bar g
	20 bar g	5.0 bar g
	25 bar g	5.5 bar g
	30 bar g	6.0 bar g
	32 bar g	6.0 bar g

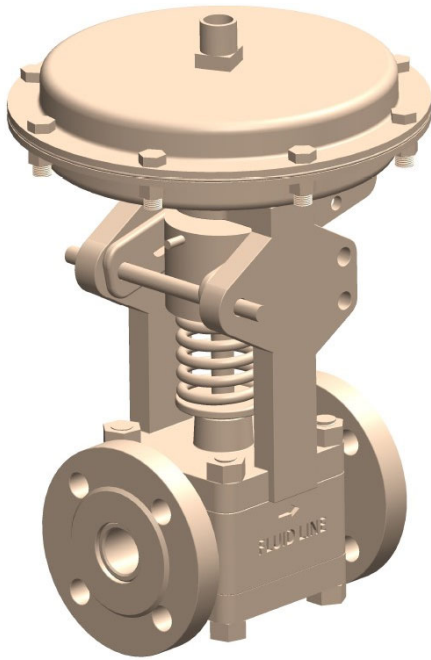
Maximum temperature for a water actuated valve	70°C
Designed for a maximum cold hydraulic test pressure of	60 bar g

### Materials

1 Body	A or M AX or MX	Steel Stainless steel	GP 240 GH ANSI 316
2 Valve seat	DN25 DN32-DN50	Stainless steel Stainless steel	ASTM A479 316 BS 970 431 S29
3 Bottom Cover	A OR M AX or MX	Steel Stainless Steel	GP 240 GH AISI 316
4 Bonnet / yoke		Steel	GP 240 G
5 Valve head		Stainless steel	ASTM A479 316
6 Spring		steel	
7 Body Stud		Steel	ASTM A193 B7
8 Body Nut		Steel	ASTM A194 2H
9 Lever		Steel	
10 Cap nut		Steel	
11 Spring Cover		Steel	
12 Leaver pin		Steel	Fe 37B

## Automatic or Manual Actuated Boiler Blowdown Valves BV200, BV200A

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### Spare parts and accessories

The spare parts available are detailed below. No other parts are supplied as spares.

### Available spares (reference drawing overleaf)

Stuffing box packing (3 off)	6
Actuator diaphragm	15
Gaskets kit (4 sets)	14
Mechanical switch (without mounting kit)	
Manual actuation lever (see drawings below)	

### How to order spares

Always order spares by using the description given in the column headed 'Available spares' and state the type and size of the valve. Example: 1 off Actuator diaphragm for a Fluid Line DN40 BV200A automatic boiler blowdown valve

### How to specify

Two-port single seat valve, Fluid Line model BV200, BV200A, suitable for bottom blowdown applications up to a maximum of 32 bar g. The valve should be air and /or hand actuated. The valve is to be self-adjusting and have a self-cleaning stuffing system. The valve is to have flanged EN 1092 PN40 connections. Valve options to be mounted on site: 3-port solenoid valve 25 Vdc and mechanical switch

### How to order Example:

1 off DN50 Fluid Line BV200A automatically actuated boiler blowdown valve having flanged PN40 connections.

### Notes:

1. The hand lever is included as standard.
2. The mechanical switch is supplied separately with a mounting kit. 3. Note options requested are not supplied fitted to the valve.

### Dimensions / weights (approximate) in mm and kg

Size	H	L	D	Weight
DN25	237	160	115	20
DN32	229	180	140	23
DN40	229	200	150	26
DN50	229	230	165	28

