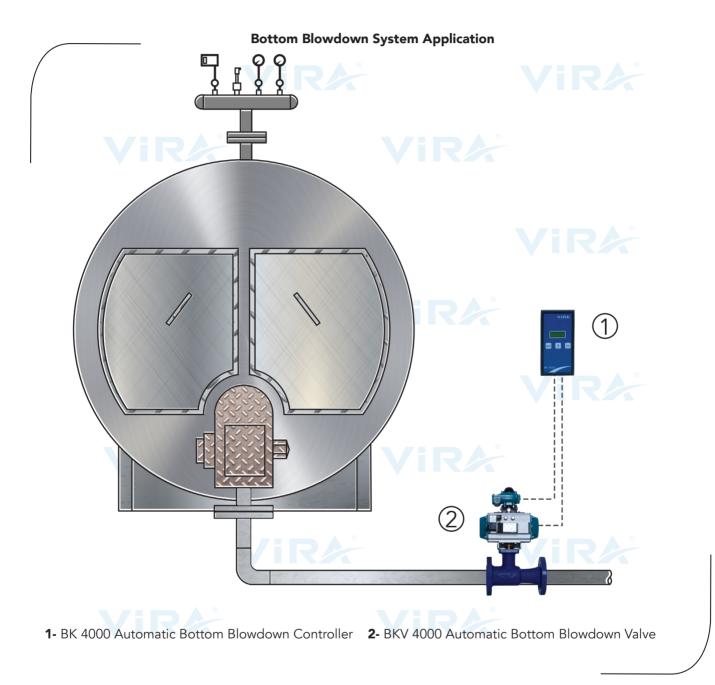# DB2

Automatic Bottom Blowdown System

Some impurities, and salts (rust, oil and dirt that may come from the installation) precipitate to the bottom of the boiler to form a sludge layer. By an actuated valve, at least four-second blowdown is performed in every eight hours (once in a shift). As a result of this process, the sludge and sediment accumulated at the bottom of the boiler are moved out of the boiler. Thus blowdown is made on time and enough by an automatic blowdown valve. By this way, both over blowdown and forgetting of blowdown is avoided.

Bottom Blowdown System Application

1- BK 4000 Automatic Bottom Blowdown Controller   **2-** BKV 4000 Automatic Bottom Blowdown Valve

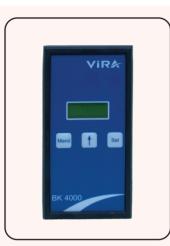**Difference between Vira BK 4000 Controller and Ordinary Timers**

1. It controls the position of the valve. If the valve is in a different position than it should be, it gives an alarm.

2. It prevents simultaneous blowdown in boilers operating side by side and connected to a single blowdown line. Before the blowdown process in a boiler is finished, other boilers are prevented from blowdown.

3. If desired, the blowdown during burner operation is delayed until the burner is switched off.

AUTOMATIC BLOWDOWN

DB2

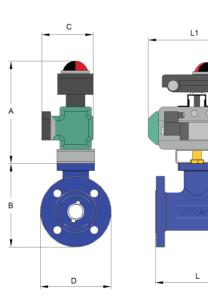## Automatic Bottom Blowdown System

Bottom Blowdown Controller

Type	: BK 4000
Mains Supply	: 230 VAC (+5% / -10%) 50/60Hz
Enclosure	: Panel Mounting
Function	: Valve Open/Close, Valve Open/Close Failure Alarm
Output	: Control Relay, Alarm Relay
Features	: Intercontroller Communication, Blowdown Remaining Time, Blowdown Set Time, Blowdown Interval, Blowdown Valve Test, Alarm Test, Blowdown Counter

Bottom Blowdown Valve

Type	: BKV 4000
Nominal Pressure	: PN 25
Max. Operat. Temp.	: 205 °C
Max. Operat. Press.	: 16 bar g
Size	: DN 25 to DN 50
Body	: GGG 40 , Monoblock

Dimensions

DIMENSIONS								
Type	**Size**	**"A mm"**	**"B mm"**	**"C mm"**	**"D mm"**	**"L mm"**	**"L1 mm"**	**Weight**
BKV 4025	DN 25	196	125	122	115	125	240	7
BKV 4032	DN 32	220	145	140	140	130	280	10
BKV 4040	DN 40	243	177	140	150	230	230	15
BKV 4050	DN 50	250	170	160	165	150	350	17
BKV 4065	DN 65	250	190	190	185	170	350	20