

BCS 970 SMART CONDUCTIVITY & BOTTOM BLOWDOWN CONTROL (COMBI MODEL)

BCS 970 Combi Conductivity & Bottom Blowdown Control System consist of BC 970 Combi Blowdown Controller, CP 930 Conductivity Probe, BCV 900 Blowdown Control Valve and BCV 700 Bottom Blowdown Control Valve.

This system offers a combination which controls two systems in one at the same time.

When TDS/conductivity is low, valve simply remains closed. No unnecessary losses, saves water treatment and chemical costs. Also it unnecessary reduces water consumption and effluent disposal charges.

It provides a complete solution by simultaneously controlling the bottom blowdown valve and TDS control valve.

- Fully automatic Combination of TDS and Bottom Blowdown Control.
- Modbus RS 485 communications.
- Valve & Alarm Test and Alarm Reset.



Technical Data

Nominal Pressure : PN 25 / PN 40
 Max. Operating Temperature : 220 °C / 238 °C
 Max. Operating Pressure : 18 bar / 32 bar

Probe Connection : 1/2", BSP - Screwed
 Probe Length : 400 mm - 1.000 mm
 Operating Principle : Single pole conductivity (CP 930), Single pole conductivity and temperature compensated (CP 910, CP 920, CP 950)

Blowdown Valve Connection : DN 20, DN 25 or DN 40, Flanged
 Blowdown Valve Actuator : Electric and spring return.

Bottom Blowdown Valve Connection : DN 25 - DN 50, Flanged
 Bottom Blowdown Actuator : Pneumatic and spring return

Control Signals : Valve control relay and high TDS/conductivity alarm relay, bottom blowdown alarm relay.

Output : 4-20 mA output and one relay for high TDS/conductivity alarm

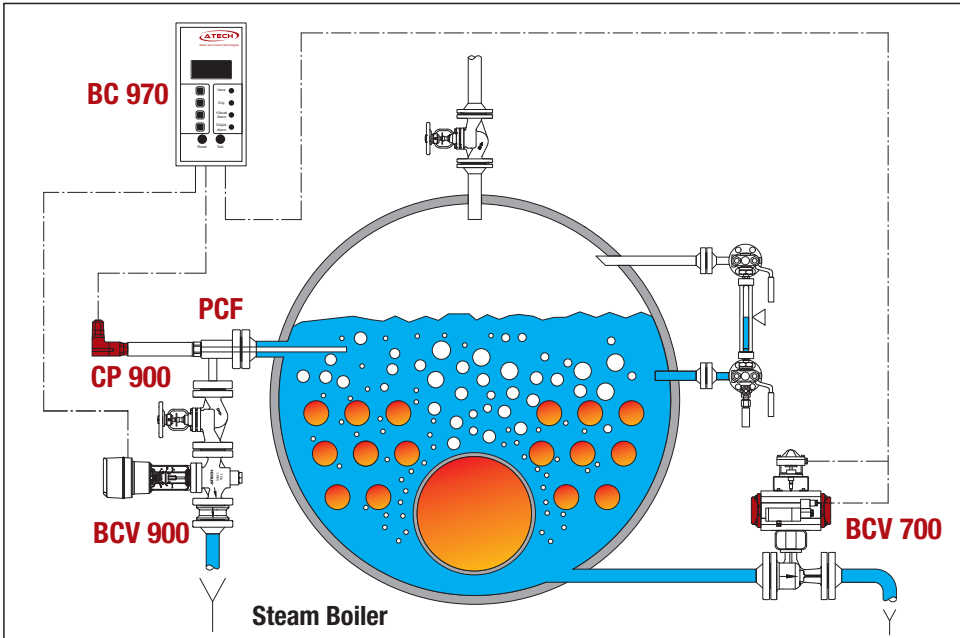
Communications : Modbus - RS 485

Functions : Valve Test, Alarm Test and Alarm Reset

Screen : Smart technology, LCD screen.

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Applications



In the BCS 970 Smart Combi Conductivity and Bottom Blowdown System, in addition to the standard conductivity sensor CP 930, the CP 950 conductivity sensor with built-in temperature sensor can also be used. Temperature compensation can be made in conductivity measurement with the CP 950 sensor.

Types

BC 970 Controller

Type	Feature
BC 970	Combi Conductivity and Bottom Blowdown Controller

CP 900 Conductivity Probe

Type	Type	Length	Connection
CP 934	CP 954	400 mm	1/2", Screwed, PN 40
CP 930	CP 950	500 mm	1/2", Screwed, PN 40
CP 936	CP 956	600 mm	1/2", Screwed, PN 40
CP 938	CP 958	800 mm	1/2", Screwed, PN 40
CP 931	CP 951	1.000 mm	1/2", Screwed, PN 40

BCV 900 Conductivity Blowdown Control Valve

Type	Connection
BCV 925-20	DN 20, Flanged, PN 25
BCV 925-25	DN 25, Flanged, PN 25
BCV 925-40	DN 40, Flanged, PN 25
BCV 940-20	DN 20, Flanged, PN 40
BCV 940-25	DN 25, Flanged, PN 40
BCV 940-40	DN 40, Flanged, PN 40

PC F Probe Connection TE

Actuator Type	Type	Connection
BA900-H	PC F20x20	DN 20xDN 20-1/2", Flanged
BA900-H	PC F25x20	DN 25xDN 20-1/2", Flanged
BA900-S	PC F25x25	DN 25xDN 25-1/2", Flanged
BA900-H	PC F40x40	DN 40xDN 40-1/2", Flanged
BA900-H	PC F50x20	DN 50xDN 20-1", Flanged
BA900-S	PC F50x25	DN 50xDN 25-1", Flanged
BA900-S	PC F50x40	DN 50xDN 40-1", Flanged

BCV 700 Bottom Blowdown Control Valve

Type	Connection	Pressure	Actuator Type
BCV 7225	DN 25, Flanged	PN 25	PA7-075
BCV 7232	DN 32, Flanged		
BCV 7240	DN 40, Flanged		
BCV 7250	DN 50, Flanged	PN 40	PA7-088
BCV 7425	DN 25, Flanged		
BCV 7432	DN 32, Flanged		
BCV 7440	DN 40, Flanged		
BCV 7450	DN 50, Flanged		

Other Accessories

Type	Feature
LS 700	Limit Switch
YV-3/2	Namur