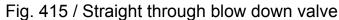
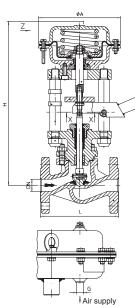
# **ARI-STEVI® BBD 415 (DN25 - 50)**

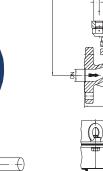


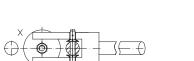


## Straight Through Blow Down Valve with Pneumatic Actuator









ARI-STEVI BBD is a Rapid-Action Intermittent Bottom Blowdown valve. It is operated to give a few-second blast which removes sludge at the bottom of the boiler to increases boiler efficiency and maintains optimum

ARI-STEVI BBD is special designed in one single unit for both

- Manual operated blowdown valve with hand lever and/or
- Automatic blowdown valve with pneumatic actuator

Dimensions					
DN		25	32	40	50
Seat - Ø	mm	22	27	37	47
Kvs values		6.4	6.4	14.7	14.7
Travel	mm	8	7	10	13
Н	mm	336	336	364	370
ØA	mm	168	168	250	250
G	inch	1/4	1/4	1/4	1/4
Lever	mm	500	500	500	500
L	mm	160	180	200	230
Weight	kg	13	15	18.3	21.5

Face to face dimension FTF series 1 according to DIN EN 558-1 (DIN 3202-1 series F1)

Technical Data				
Туре	Blow Down Valve Fig. 415		Plug design	Standard : Isolation plug with marginal seat, stellited
Nominal diameter	DN 25-50		Shut off classes	Metal seat - Leakage class 1 acc. to DIN 3230 T3/BN
Nominal pressure	PN 40		Auxiliary engergy	Air supply pressure max : 6 bar
	PTFE-V-ring unit	-10 °C up to 220 °C		Air supply acc. to DIN IEC 60654-2
Stem sealing	PTFE-packing	-10 °C up to 250 °C	Selection of	Steam boiler plants (for bottom blow down)
	Pure graphite-packing	-10 °C up to 450 °C	possible	
Body material	1.0619+N PN40 Fig. 3 Other materials and version		applications	- other applications on request

Pressure Temperature Ratings											
acc. to manufacturers standard											
Material			-10°C to +50°C	120°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C
1.0619+N	PN40	(bar)	40	40	38.1	35	32	28	25.7	23.8	13.1
Intermediate values for may permissible operational pressures can be determined by linear interpolation of the given temperature / pressure chart											

#### Calculation of boiler water quantity to be discharged according to formula:

Conductivity of feedwater: S = 20 [µS/cm]

Admissible conductivity of

boiler water: K = 4000[µS/cm]

Q = 2000 Boiler capacity: [kg/h]

Boiler water quantity to be

discharged:

A≈10 [kg/h]

#### Steam boiler pressure (bar) Reading chart

Boiler pressure : 16 bar

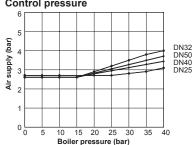
Nominal size of intermittent boiler blowdown: DN 32

Flowrate: 2.9 kg/s

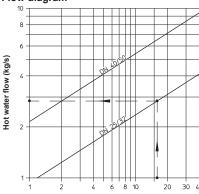
Blowdown duration = 10/2.9 = 3.5 s/h

≈ 4 seconds per hour

#### **Control pressure**

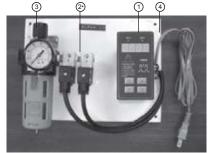


#### Flow diagram

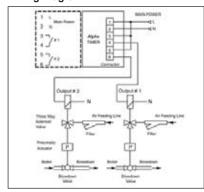


### **TIMER Complete Set**

1. Timer Alpha 3. Air Filter Regulator 2. 3/2 Solenoid Valve 4. Steel Plate (\*one Solenoid Valve used for one Blowdown Valve )



#### Wiring Diagram



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