

## blow down valves

- WITH LEVER
- WITH PNEUMATIC ACTUATOR



Blow down valve with lever and adjustment handwheel



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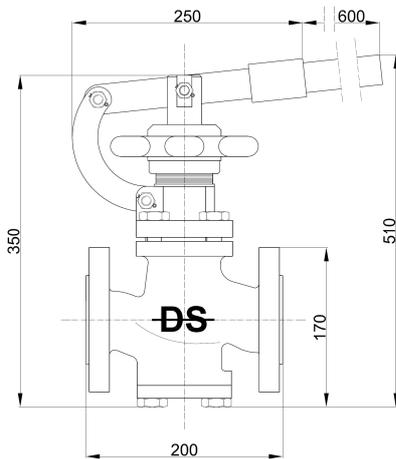
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The seal is metal and, thanks to the tempered disc and stellited seat, the valve can be used with high temperature steam.

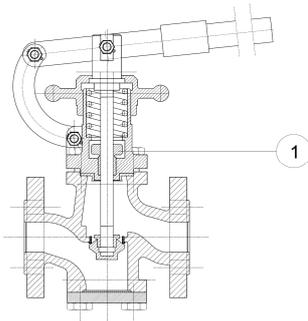
Blow down valve with pneumatic actuator and safety handwheel

## BLOW DOWN VALVE DN40 PN40 DS BDV

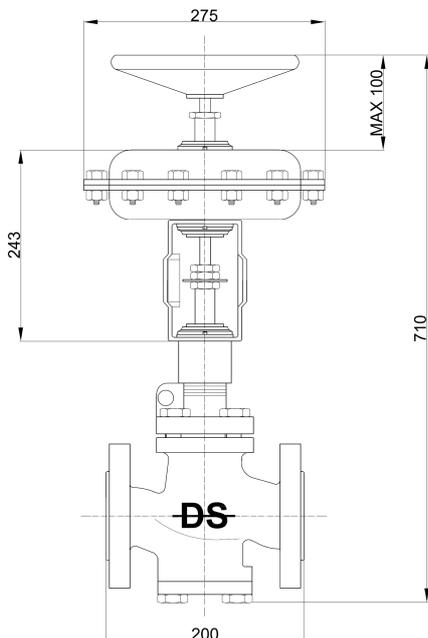
Code: DS BDV - 40/40 - WCB/CS



Sectional view



Code: DS BDVPA - 40/40 - WCB/CS



### Technical data

#### Service conditions

Max pressure: PN40  
Max temperature: 400°C

#### Description

The main function of these valves is to drain mud in hydraulic circuits. DIESSE blow down valves must be installed downstream of a shut-off globe valve suitable for the intended use of the system. The seal is metal and, thanks to the tempered disc and stellite seat, the valve can be used with high temperature steam. On request the valve can be supplied with a pneumatic actuator.

#### Handling

Quick on/off operation by lever or by pneumatic actuator

#### Materials (Standard)

Execution:	CS/CS
Body:	ASTM A216 WCB
Bonnet:	ASTM A216 WCB
Lower cover:	Carbon steel galvanized
Stem:	ASTM F6A
Plug:	ASTM F6A
Seat:	AISI 410A con riporto in stellite Grado 6
Packing:	Graphite

#### Flange-to-flange distance measure

L = 200 mm

#### Process connections

Standard flanges: UNI DN40 PN40  
Option: on request it is possible to reduce the flanges' diameter (UNI or ANSI) maintaining the same body and flange-to-flange distance measure

#### Feeding pneumatic actuator

Air pressure: 35-40 psi

#### Weights

Valve DS BDV: Kg. 20,0 approx.  
Valve DS BDVPA: Kg. 23,0 approx.

#### Operating instructions

##### Caution: the valve can reach high temperatures

- The opening and closing operation of the valve or the screws tightening requires such specific devices and tools that operation by personnel not specifically trained to do so is not advised.
- During the above mentioned operations, operators must wear appropriate individual personal protective means, and all necessary precautions must be taken to avoid accidents.
- The valve has been designed to be disassembled with special tools only, to avoid the opening of its part by accident.

The DIESSE blow down valve must be installed following the direction indicated by the arrow on the body.

We recommend to install the blow down valve downstream of a streamlined flow valve.

To reach the better result we recommend to open very quickly the valve so that the thicker mud on the floor can be removed from water. The manual type enables to block the lever on the preferred open position by means of an adjustment handwheel.

Should any leakage occur when the valve is off, please check that the adjustment handwheel is completely unscrewed.

As the closing spring is very powerful, in case a pneumatic actuator is installed, it is recommended to install a control valve on the air exit to check and slow the plug air emptying.

Should any leakage occur from the packing, slightly screw the gland (1) (1/4 turn at a time, until leakage stops) by means of a 5 mm metal rod.

When the stuffing box completes the adjustment, it is possible to insert a graphite braid to temporary restore the packing.

The packing replacement should be done by the Manufacturer because the spring ejection could cause injury to a no-skilled involved operator. The same is recommended for the plug and seat replacements.

It is also recommended, before any valve usage, to assure a careful cleaning of the equipment by checking the presence of welding residual or iron scraps. They could damage the plug and the seat reducing their tight. If any scrape is noted, please contact DIESSE to agree parts replacements.

In the case of installation of the valve near the passage of personnel, it is advisable to signal the presence of the extension tube of the handle by painting of an intense colour, or unscrew it after each use.