

***Documentation and administration system  
for valve tests at safety valves and shut-off valves***

**EFCO VALVE-DOC**



The EFCO-Documentation System is designed according to the latest state of technique and with components of highest quality. For the EFCO VALVE-DOC application software several languages are available (German, English, Russian and Spanish other languages upon request)  
As operation system we use WINDOWS 7.

EFCO VALVE-DOC will be delivered **fully pre-installed and configured**.  
For operating simply put in the power plug and connect the pressure transducer to the valve test bench.

Mobile equipment (also suitable for your workshop) is used for documentation and administration of:

**Set-pressure tests and seat leakage tests of safety relief valves**

and

**Body leakage tests and seat leakage tests of shut-off valves / control valves**  
(e. g. gate valves, ball valves, globe valves etc.)

EFCO VALVE-DOC is a helpful tool which supports your efforts regarding documentation and safeguarding of your quality efforts.

**The VALVE-DOC can easily be connected to your existing valve test benches as well.**

---

## **A.) APPLICATION FOR SAFETY RELIEF VALVES:**

### **Main screen (offering choice between):**

- Set-pressure tests and seat-leakage tests of safety relief valves
- Define tolerance values for set-pressure tests of safety relief valves
- Back up of data to USB-stick

### **Defining tolerance values:**

- Enter minimum and maximum tolerances values for set-pressures for safety relief valves (tolerances to be entered in percentage (%) +/- of the desired set-pressure of the valve)

### **Data Input:**

- Enter all necessary data used for executing and documentation of tests (e.g. workshop, valve type, valve serial no., technical data, etc.)

### **Execution of valve tests and archiving of tests**

- Registration of the test results (up to 8 pressure transducers possible)
- Automatic analysis of set pressure at safety relief valves
- Manual input of seat leakage results (bubbles/minute) during safety relief valve tests
- Data import into a database on hard disk
- Back up onto USB-stick possible as well

### **Generating a valve test report**

- a report printed form for safety relief valve tests (set-pressure tests, seat leakage tests)

### **Administration of valve log cards**

- Documentation of all works executed on the specific valve along with date (tests/repairs/etc.)
- Printing of the valve log card

### **Languages**

- Screens of EFCO VALVE-DOC, test reports and manual instructions in German, English, Spanish or Russian language (other languages upon request)

## **B.) APPLICATION FOR SHUT-OFF VALVES / CONTROL VALVES:**

### **Main screen (offering choice between):**

- Body pressure tests and seat-leakage tests of shut-off valves
- Define tolerance values for body pressure tests of shut-off valves
- Back up of data to USB-stick

### **Defining tolerance values**

- Enter minimum tolerances values for body-pressure tests of shut off valves.  
(Tolerances to be entered in percentage (%) of the desired body test pressure of the valve)

### **Data Input**

- Enter all necessary data used for executing and documentation of tests  
(e. g. workshop, valve type, valve serial no., technical data, etc.)

### **Execution of valve tests and archiving of tests**

- Automatic analysis of body pressure tests of shut-off valves
- Manual input of seat leakage details (bubbles/minute) of shut-off valves
- Data import into a database on hard disk
- Back up onto USB-stick possible as well

### **Generating a valve test report**

- A printed report for shut-off valve tests (body pressure tests, seat leakage tests)

### **Administration of valve log cards**

- Documentation of all works executed on the specific valve along with their date (tests/repairs/etc.)
- Printing of the valve log card

### **Languages**

- Screens of EFCO VALVE-DOC, test reports and manual instructions in German, English, Spanish or Russian language (other languages upon request)

## **SCOPE OF SUPPLY:**


1 piece Notebook (*We use notebooks up to date.*)

- 1 piece Black box (Input/Output-Card, etc.)
- Software package (pre-installed)
- 2 piece Pressure transducers, accuracy class 0.5  
*Range: 0 - 60 bar and 0 - 250 bar (Others are available upon request)*
- Colour note book printer *(bubble printer, actual model as per our choice)*
- Accessories (cable etc.)
- Manual instructions
- duly stored into a solid system carrying case

*further options/accessory can be quoted upon request*

*Subject to change without notice*

**Valve test report / set pressure test (sample only)**

Text 1 Text 2 Text 3	Text 4  Text 5	
----------------------------	----------------------	---

Plant:	Powerplant 1	Certification number:	20080221001
Valve-Type:	SV	Creation date:	21.02.2008
Valvel - No.:	33467	Customer:	Customer's Name
Rev.-No.:	22/14	Application No.:	12213
Part-No.:	22354342	Manufacturer:	Manufacturer

**Technical Data**

DN-Inlet mm	DN-Outlet mm	PN bar	Seat mm	Lift mm	AX/Meas. mm
50	100	33	34		1,2

**Material**

Seat	Cone	Housing
Sainless Steel		Cast Iron

**Spring data**

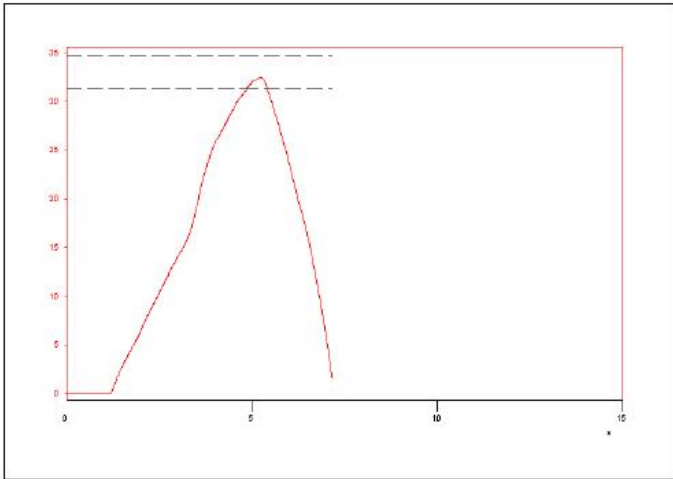
Spring-No.	External diameter mm	Wire diameter mm	Unloaded springlength mm	No. of windings
2214	48	4	178	11

**Release pressure**

Target r. pressure:	33,00 bar
Actual r. pressure:	32,50 bar
Test medium:	Air



Comments:	Line 1 Line 2 Line 3 Line 4	Inspector: Alfred Test date: 21.02.2008 Location of test: Workshop Surveyor: 22
-----------	--------------------------------------	--

*Subject to change without notice*