

# Check List - Test Benches



## EFCO USA, Inc. – Valve Repair and Testing Equipment

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Company: ..... Date: .....  
 Phone: .....  
 Contact: ..... E-mail: .....

• **Information on the type of valves to be tested:**

**Shut-Off Valves and Regulating Valves** (Safety Relief Valves only - see next page)

**Valve type:**  Gate Valves  Globe Valves  Ball Valves  Butterfly Valve  
 Check Valves  Control Valves  Plug  
 Others (please describe here) .....

**Valve end has/is:**  Butt-welded  Flange  Threads  
 Other (please describe here).....

**Valve shape:** - 2-Way -  Straight form  Angular form  
 Other (please describe here or provide drawing).....

• **What kind of tests have to be done and what is the test medium?**

Body tests  Water  Air (LP 6bar (87 psi))  
 Seat leakage:  Water /  Air (LP 6bar (87 psi)) or  Air/Nitrogen(High Pressure)  
 Other tests (please describe here).....

NP=Low Pressure ; HP=High Pressure

• **Test pressures: DN size and the maximum test pressure for exactly this DN size.**  
 (you should only indicate DN sizes and test pressures according to your main programme.  
 Exceptions (sizes/pressures) can increase the price of the test bench and its accessories very much!)

max. testpressure using **water** (bar or psi)

Please fill in!

valve size	bar	psi		bar	psi		bar	psi
DN15 (1/2")			DN80 (3")			DN350 (14")		
DN20 (3/4")			DN100 (4")			DN400 (16")		
DN25 (1")			DN125 (5")			DN500 (20")		
DN32 (1 1/4")			DN150 (6")			DN600 (24")		
DN40 (1 1/2")			DN200 (8")			DN700 (28")		
DN50 (2")			DN250 (10")			DN800 (32")		
DN65 (2 1/2")			DN300 (12")					

max. test pressure using **air/nitrogen** (bar or psi)

Please fill in!

valve size	bar	psi		bar	psi		bar	psi
DN15 (1/2")			DN80 (3")			DN350 (14")		
DN20 (3/4")			DN100 (4")			DN400 (16")		
DN25 (1")			DN125 (5")			DN500 (20")		
DN32 (1 1/4")			DN150 (6")			DN600 (24")		
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DN50 (2")			DN250 (10")			DN800 (32")		
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Quality, Reliability, and Innovative Technology – Made by EFCO – Made in Germany

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## Safety Relief Valves -

**Valve end has/is:**  Flange       Threads       Other (please describe here).....

**Valve shape:**       Straight form       Angular Form

**• Kind of tests have to be done at the safety valve and what is the test medium?**

Set pressure tests	<input type="checkbox"/> Water /	<input type="checkbox"/> Air/Nitrogen (HP)
Seat leakage tests	<input type="checkbox"/> Water /	<input type="checkbox"/> Air/Nitrogen (HP)
<input type="checkbox"/> Other tests (please describe) .....		

HP = High Pressure

- Test pressures: DN size and the maximum test pressure for exactly this DN size.**  
*(you should only indicate DN sizes and test pressures according to your main programme. Exceptions (sizes/pressures) can increase the price of the test bench and its accessories very much!)*

max. test pressure using **water** (bar or psi)

*Please fill in!*

valve size	bar	psi		bar	psi		bar	psi
DN15 (1/2")			DN80 (3")			DN350 (14")		
DN20 (3/4")			DN100 (4")			DN400 (16")		
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DN50 (2")			DN250 (10")			DN800 (32")		
DN65 (2 1/2")			DN300 (12")					

max. test pressure using **air/nitrogen** (bar or psi)

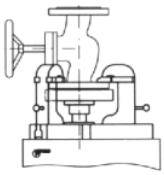
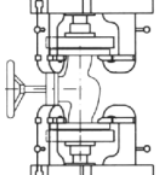
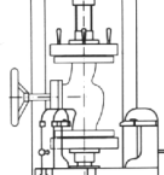
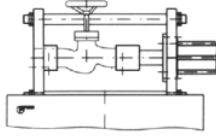
*Please fill in!*

valve size	bar	psi		bar	psi		bar	psi
DN15 (1/2")			DN80 (3")			DN350 (14")		
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# Check List - Test Benches



• **What kind of valve Clamping is required/preferred ?**

<p><b>1</b></p> 	<p><b>2</b></p> 	<p><b>3</b></p> 	<p><b>4</b></p> 
<p>Unilateral clamping of flanged valves using claws</p> <p>Applicable Clamping forces 7,5t - 140t</p> <p><input type="checkbox"/></p>	<p>Bilateral clamping of flanged valves using claws</p> <p>Applicable Clamping forces 100t - 140t</p> <p><input type="checkbox"/></p>	<p>Unilateral clamping of flanged valves using claws or clamping of flanged or and butt-welded valves between two tables (Test bench with upper clamping yoke)</p> <p>Applicable Clamping forces 15t - 100t *</p> <p><input type="checkbox"/></p>	<p>Horizontal Clamping of flanged valves and butt-welded valves between two tables (Horizontal test bench)</p> <p>Applicable Clamping forces 7,5 - 10t Clamping forces 100t -300t *</p> <p><input type="checkbox"/></p>

**\*To avoid damages due to deformation of the test valve during the test our test benches with clamping forces of more than 75 tons are furnished with a proportional clamping control function**

• **Gauge readings preferred ?**

Reading:  bar  psi  psi/bar  MPa  kg/cm<sup>2</sup>

• **Available energy resources available on place of test bench installation ?**

Air: .....psi  
 Electricity:  110VAC/60Hz  230VAC/50Hz  400VAC/50Hz  
 Other (please note) .....

• **What options are required ?**

- Digital Bubble counter (bubbles/minute) for seat leakage tests using air/nitrogen
- Separate Air compressor for pressures up to 200 bar (2900 psi) (=Air Booster)
- Separate Air compressor for pressures higher than 200 bar (2900 psi) (=Air Booster) The pressure required is ..... bar (..... psi)
- Digital displays with peak value storage function for the measured highest pressure (=set pressure of safety valves), including suitable pressure transducer
- Display of test result via PC and print out of a test reports
- Piping and bolting made of non-rusting steel
- Water tank made of stainless steel
- Instruction manual and machine labels in other language than German or English:  
 Language required is:.....
- Further requirements (Please describe)

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