

Checklist (for Test Benches)



EFCO Maschinenbau GmbH – Valve repair and testing equipment

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Company name: Date:
 Phone.:
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• **Information on the type of valves which have to be tested ?**

- Shut-off valves and regulating valves -

Valve type: Gate valves Valves Ball valves
 Butterfly valve Return flaps (flat trap) Control valves
 Others (please describe here)

Valve end has/is: Flange Butt-welded 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	<input type="checkbox"/> Water	<input type="checkbox"/> Air (LP 6bar (87 psi))
Seat leakage:	<input type="checkbox"/> Water /	<input type="checkbox"/> Air (LP 6bar (87 psi))/ <input type="checkbox"/> Air/Nitrogen(HP)
<input type="checkbox"/> 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 (½")			DN80 (3")			DN350 (14")		
DN20 (¾")			DN100 (4")			DN400 (16")		
DN25 (1")			DN125 (5")			DN500 (20")		
DN32 (1 ¼")			DN150 (6")			DN600 (24")		
DN40 (1 ½")			DN200 (8")			DN700 (28")		
DN50 (2")			DN250 (10")			DN800 (32")		
DN65 (2 ½")			DN300 (12")					

max. test pressure using **air/nitrogen** (bar or psi) *Please fill in!*

valve size	bar	psi		bar	psi		bar	psi
DN15 (½")			DN80 (3")			DN350 (14")		
DN20 (¾")			DN100 (4")			DN400 (16")		
DN25 (1")			DN125 (5")			DN500 (20")		
DN32 (1 ¼")			DN150 (6")			DN600 (24")		
DN40 (1 ½")			DN200 (8")			DN700 (28")		
DN50 (2")			DN250 (10")			DN800 (32")		
DN65 (2 ½")			DN300 (12")					

THE PREMIUM-PRODUCTS – MADE BY EFCO – MADE IN GERMANY

Checklist (for Test Benches)



- Safety 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 using	<input type="checkbox"/> Water /	<input type="checkbox"/> Air/Nitrogen (HP)
Seat leakage tests using	<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")		
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)

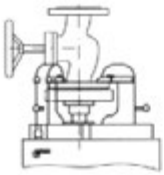
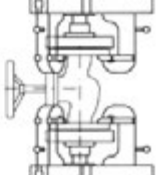
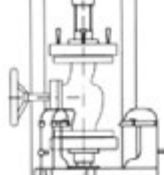
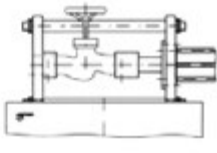
Please fill in!

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")		
DN65 (2 1/2")			DN300 (12")					

Checklist (for Test Benches)



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

			
<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/cm²

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

Air:bar
 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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