Annex 1

LIST OF FINAL TESTS GU DN 300 - DN 1400

Name of test	Position of the ball	Pressures (bar)		Time of the test. stabilisa tion/test (min)	Acceptation criterion	Testing medium	Test description
1.Pneumatic body test	A B C	A B C	6 6 6	30 / 30	Neither leakage nor pressure losses	air	Tightness test of ball valve body surface with the use of foam creating solution.
2.Hydrostatic body test	A B C	A B C	1,5xPN 1,5xPN 1,5xPN		Neither leakage, pressure losses, nor defor- mation	water	Strength test of GU. After reaching testing pressure and stabilisation we follow pressure losses, leakage, and deformation.
3.Function test	A B C	A B C	PN atmos. atmos.	1	Fluent opening in time limit	water	Function test from close position to open position at one-side pressure PN.
4. Function test	A B C	A B C	atmos. atmos. PN	-	Fluent opening in time limit	water	Function test from close position to open position at one-side pressure PN on opposite side of GU
5. Double Block& Bleed	A B C	A B C	1,1xPN atmos. 1,1xPN	30 / 2	0 bubbles in 2min.	water or air	Test on tightness of seats from both sides A and C in close GU
6.Double Block & Bleed	A B C	A B C	1,1xPN atmos. 1,1xPN	30 / 2	0 bubbles in 2min.	water or air	Test on tightness of seats from both sides A and C in open GU
7.Double Piston Effect	A B C	A B C	atmos. 1,1xPN atmos.	30 / 2	0 bubbles in 2min.	water or air	Test on tightness of seats from both sides A and C in close GU
8. Sealing test of seats	A B C	A B C	0,5 atmos.	30 / 2	0 bubbles in 2min.	nitrogen or air	Tightness test on side A
9. Sealing test of seats	A B C	A B C	atmos. atmos. 0,5	30 / 2	0 bubbles in 2min.	nitrogen or air	Tightness test on side C
10. Sealing test of seats	A B C	A B C	1,1xPN atmos. atmos.	30 / 2	0 bubbles in 2min.	nitrogen or air	Tightness test on side A
11. Sealing test of seats	A B C	A B C	atmos. atmos. 1,1xPN	30 / 2	0 bubbles in 2min.	nitrogen or air	Tightness test on side C

Annex 1

Remark No. 1:

Sample will be taken by pressure hose from the inter space of the ball. During measurement the free end of the hose is submerged 50mm below the water level (see picture No.1).

Picture No. 1



Remark No. 2:

At tests under water it is necessary to use calibrated pipette with max. internal diameter 5 mm.