

## **Examination Report**

### **1 Client**

EST Group B.V., a business unit of Curtiss-Wright Flow Control  
Hoorn 312A  
2404 HL , Alphen aan den Rijn  
The Netherlands

### **2 Test Object**

Double Block and Bleed Plugs

### **3 Prüfgrundlagen**

Calculation based on AD2000

### **4 Underlying documentation**

- Operating Procedures for Double Block and Bleed Plugs - USA, DC2685, Rev4 04/09
- Double Block and Bleed Technical Specifications, DC2687, Rev 3 05/10
- Double Block and Bleed Test and Isolation Plugs, DC 8057, Rev 2 11/09
- Drawings DBB-2P40, DBB-8P40

### **5 Results**

For the examination the stress caused by the pre-load at maximum fastening torque was calculated . Additionally, the strength at maximum test pressure was evaluated.

For the calculations the maximum fastening torque and test pressure according to the operating procedures are taken as a basis. No unallowable stresses occur in the plug.

## 6 Summary

Based on the calculation results there are no objections against the application of the Double Block and Bleed Plugs, if the boundary conditions of the operating procedures are adhered to.

Cologne, 27/08/10

The Expert



Dr. Christian Mayer



Albert Wißkirchen