



TESTING SOLUTIONS

## FLIGHT SURFACE ACTUATORS T.B.

B\_2311



B\_2311 test bench is designed to complete functional test and force vs time diagram on servo actuated jacks for flight surfaces:

- Proof test: over pressure test of assembly
- Zero flow: hydraulics check of servo valve
- Load functional test
- Jack leakage
- Running in of jack
- Feedback sensor position test

An upper test box, with interlocked doors, can contain the actuator in two position to realize all the tests. Steps of test are completely automated from a software; the control PC ask periodically an operator confirmation.

The lower box include all the hydraulics equipment and valves and meters to realize test and also the control system for the passive load for functional test.

An external console allows complete control of test bench and can monitor and store all the test data coming from sensors. DAS system is based on NI hardware.

### TECHNICAL DATA:

- |                     |             |
|---------------------|-------------|
| • OIL:              | MIL H 5606  |
| • VOLUME:           | 60 lt       |
| • TEMPERATURE:      | 35°C [±5°C] |
| • FLOW:             | 0 ÷ 15 lpm  |
| • OIL SUPPLY LINE:  | 2           |
| • WORKING PRESSURE: | 300 bar     |
| • PROOF PRESSURE:   | 425 bar     |

### INSTRUMENTATION:

- |                     |                     |
|---------------------|---------------------|
| • FLOWMETER         | 0,03 ÷ 40 lpm       |
| • TEMPERATURE PROBE | PT100 (1)           |
| • PRESSURE SENSOR   | 0 ÷ 45 MPa [±0,04%] |
| • LOAD CELL         | 0 ÷ 500 Kg          |

### SAFETY DEVICES:

- Interlocked doors
- Emergency button and safety modules
- Safety pressure switch
- Safety thermostat switch

### POWER SUPPLY:

- |             |                    |
|-------------|--------------------|
| • Electric: | 15 kW 400V 3F+N+PE |
| • Air       | //                 |
| • Water     | 3,5 bar / 1/2"     |

### DIMENSIONS AND WEIGHT:

- |               |                        |
|---------------|------------------------|
| • L, p, h:    | 2000 x 1100 x 2000 mm; |
| • Raw weight: | ~ 800 kg               |

### COLOUR:

- |            |                |
|------------|----------------|
| • Standard | Gray RAL 7035. |
|------------|----------------|

### NOTE:

- As customer request.





The test stand can be equipped with a PC and NI DAS. PC software can set the test profile and can create a complete test report [torque vs time].

The test bench meets Industry 4.0 requirements

Via internet connection, it allows you to:

- obtain information about test bench status and carry out control and management operations;
- use the BAVA remote assistance service;
- any kind of remote control.



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