

## Classification of hydraulic components with regard to directive 2006/42/EC

### REFERENCE DOCUMENTS FOR ASSESSMENT:

- ✓ Directive 2006/42/CE of the European Parliament and of the Council of 17 May 2006 on machinery and amending the directive 95/16/CE
- ✓ Guide to application of the Machinery Directive 2006/42/CE– 2nd edition – June 2010
- ✓ CETOP Position Paper on the Implementation of the Machinery Directive 2006/42/EC in the Fluid Power Industry – 26<sup>th</sup> May 2010

The products subject of this classification document refer to all main products produced of Badestnost JSCo.

Each of them consists of various models having different characteristics, setting and performance.

### PRODUCTS:

- ✓ All type valves;
- ✓ All type hand pumps;
- ✓ All type tanks.

### CLASSIFICATION:

#### Considered:

1. Guide to application of the Machinery Directive 2006/42/EC – 2nd edition – June 2010:

#### *Comment §35*

*“... The Machinery Directive does not apply as such to separate machinery components such as, for example seals, ball-bearings, pulleys, elastic couplings, solenoid valves, hydraulic cylinders, flange-connected gearboxes and the like, that do not have a specific application and that are intended to be incorporated into machinery. The complete machinery incorporating such components must comply with the relevant essential health and safety requirements. The machinery manufacturer must therefore choose components with adequate specifications and characteristics.”*

## 2. CETOP Position Paper on the Implementation of the Machinery Directive 2006/42/EC in the Fluid Power Industry - 26th May 2010

### 1.4.1 Fluid power (pneumatic or hydraulic) components

*The following list includes fluid power (pneumatic and hydraulic) components that are excluded from the scope of the Machinery Directive:*

- *Actuators (cylinder, motors)*
- *Valves*
- *Mechanical pressure switches*
- *Shock absorbers, braking cylinders*
- *Pressure transducers/intensifiers*
- *Control systems*
  - *Pneumatic or electro pneumatic control systems such as stepper modules or cam controls*
  - *manifolds, complete electro hydraulic control systems in open or closed loop control circuits*
- *Sensors and monitoring devices ( e. g. limit switches, temperature sensors, electronic pressure switches)*
- *Sealing devices*

### 1.4.3 Hydraulic components

*The following non-exhaustive list includes hydraulic components that are excluded from the scope of the Machinery Directive:*

- *Hydraulic pumps and motors (constant or adjustable)*
- *Hand pumps*
- *Accumulators (these fall within the scope of the Pressure Directive)*
- *Tube and hose assemblies*
- *Tube and hose connectors*
- *Quick couplings*
- *Filters and filter elements*
- *Heat exchangers*
- *Hydrostatic transmissions*
- *Valve stands*
- *Hydraulic accumulator stations*
- *Prime mover/hydraulic pump units*
- *Circulation unit for filtration and/or cooling*
- *Training rigs, supplied in parts (for given examples of circuit diagrams risk analysis shall be made and the results have to be indicated in the manuals supplied)*

### Conclusion:

Based on objects above, it can be expected that none of components described in this classification document is included within the scope of the “Machinery” Directive 2006/42/EC.

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