

## BBS-Systems AG

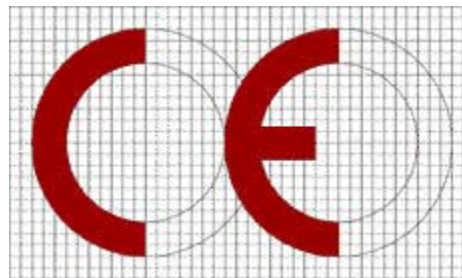
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## General Specification for BBS-Systems Components



Conform  
No. 0036

All Products and support conditions of BBS-Systems are according to the following specifications. These Specifications are valid unless modifications are specifically accepted in writing and signed by an authorised representative of BBS-Systems.

### Directives

#### - Directive 97/23/EC

of the European Parliament and of the Council of 29. May 1997 on the approximation of the laws of the Member States concerning pressure equipment

#### - Directive 87/404/EC

of the European Parliament and of the Council of the laws of the Member States concerning pressure Vessels

#### - Directive 2006 / 42 / EG

of the European Parliament and of the Council of Dez. 2009 on the approximation of the laws of the Member States concerning Machine guidelines.

### Piping Dimensions:

- DIN DN 04 - DIN DN 10 acc. to DIN 2634 Raw 0
- ISO DN 08 – ISO DN 20 acc. to ISO 4200 Raw A
- ISO DN 25 – ISO DN 150 acc. to ISO DN 4200 Raw B
- ISO DN 200 and larger according to ISO 4200 Raw C
- Imperial dimensions acc. to ASME BPE 1997 + BPE a 2000. ANSI 3610 and ANSI B16.5
- SMS Sizes acc. to SMS 3008

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### Tolerances :

- Pipes acc. to DIN 17457 D4/T4 ( D3/T3) and DIN 17458 D4/T4 (D3/T3)
- Fittings acc. to ISO 5251, ASME BPE 1997 + BPE a 2000
- Connections and Forms acc. to DIN 7184 Part 1 and OENORM
- A 6065 part 3 i.e. DIN ISO 2768 and DIN ISO 1101, ASME BPE 1997 + BPE a 2000
- Glasses acc. to DIN 7184 / ISO/R 1101 acc. DIN 7080
- Seals acc. to DIN 3771
- Hose acc. to [BBS-Hose Specifications](#)

### Connections:

- Prepared for Orbital Welding in tangent length of 16 mm or 18 mm for DIN, ISO and BSOD Sizes and to ASME BPE 1997 + BPE a 2000
- Valve actuators acc. to George Fischer specification.

### Joints:

- Threads acc. to DIN 13 part 1-27 and BBS-Systems Norm Piping components and ASME BPE 1997 + BPE a 2000
- Clamps acc. to ANSI Standard, ASME BPE 1997 + BPS a 2000
- Welding acc. to EN 288
- Screws acc. to DIN 267 Part 1

### Material:

- Product contacted 1.4435 acc. to BN 2 ( 316L ) and ASME BPE 1997 + BPE a 2000 / DIN 17440 / EN 10222-5 Steel forgings for pressure purposes / EN 10028-7 Flat products made of steels for pressure purposes / EN 10272 Stainless Steel bars for pressure purposes
- Non Product contacted 1.4571, 1.4301 or equal i.e. technical Documentation for Design and DIN 17440 / EN 10222-5 Steel forgings for pressure purposes / EN 10028-7 Flat products made of steels for pressure purposes / EN 10272 Stainless Steel bars for pressure purposes
- Seals EPDM, FEP-Silicone ( FDA conform )
- Diaphragms EPDM ( FDA conform ), PTFE / EPDM 2 piece construction ( FDA conform )
- Hose - Silicone ( reinforced or transparent ) FDA conform
- Glass - Borosilicate 3.3 acc. to DIN ISO 3585
- Valve actuators - PP mod. reinforced

### Certificates:

- Product contacted acc. to EN 10204/3.1B ( AD-W2 )
- Non Product contacted acc. to EN 10204 / 2.1
- Seals acc. to EN 10204/2.1 and Certificate of Conformity acc. to FDA 177.2600 i.e. USP
- Diaphragms acc. to EN 10204/2.1 and Certificate of Conformity acc. to FDA 177.2600
- Standard Hose acc. to EN 10204.2.1 and Certificate of Conformity acc. to FDA 177.2600 and USP 24 Class IV
- Glass acc. to EN 10204/2.1 and BPE 177.2600 specification
- Flow conformity upon request ( Standard BPE Regulations )
- Pressure conformity upon request.

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### Quality:

- Product Contacted surface Ra < 0,6 µm electropolished acc. BN 94
- Non Product Contacted surface Ra > 0,8µm electropolished acc. BN 94
- Weld seam unpolished, pickled and electropolished acc. BN 94
- Product contacted Parts are marked with Material and Trade mark.

### Pressure:

- acc. to specifically BBS-Systems [Documentations](#) / pressure test to BS 6755 Pt.1

### Temperature: ( Temperature at Ambient Pressure )

- Seals max. + 140°C
- Hose max. + 160°C
- Glass max. + 300°C

### Resistance:

- Material resistance acc. to Raw material supplier

### Approvals:

- are not an integral Part of any delivery

### Quality control:

- Approvals acc. To Raw material supplier – not included in the standard delivery
- Control acc. to AQL 0.65 Norm Niveau II sampling plan

### Documentation

- Documents such as (Drawings, Certificates, Manuals, Users Guide) are not included in the price and need to be separately ordered in written with all needed Norms and Guidelines.

- Temperature and Pressure ratings are not committal due to combination of chemical treatment and time ratings.

- The technical dates are not binding. They are not warranted characteristics and are subject to change. Please consult our General supply Conditions.

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