COMPACT SAFETY RELIEF VALVE

Specifications

Body material; BRASS ALLOY CW510L (Lead Free)

Finishing; Sand blasted

Operating temperature range: -10 to 185 degrees Celsius

CDD/E

Diaphragm safety valve with female/female connections. Set pressure as required, up to 8 bar. Size 1/2" and 3/4". EC PED, ACS, WRAS



₩ Solar version SRP/FS 1/2"

| Name | Size | Code |
|--------------|------------------|------|
| SRP/F 1/2" | | |
| RP/F 1/2 0,5 | Ø 1/2" x 0,5 bar | 0399 |
| RP/F 1/2 1,5 | Ø 1/2" x 1,5 bar | 0043 |
| RP/F 1/2 1,8 | Ø 1/2" x 1,8 bar | 0293 |
| RP/F 1/2 2 | Ø 1/2" x 2 bar | 0044 |
| RP/F 1/2 2,5 | Ø 1/2" x 2,5 bar | 0045 |
| RP/F 1/2 3 | Ø 1/2"×3 bar | 0046 |
| RP/F 1/2 3,5 | Ø 1/2" x 3,5 bar | 0285 |
| RP/F 1/2 4 | Ø 1/2" × 4 bar | 0047 |
| RP/F 1/2 5 | Ø 1/2" x 5 bar | 0048 |
| RP/F 1/2 6 | Ø 1/2" × 6 bar | 0049 |
| RP/F 1/2 7 | Ø 1/2" x 7 bar | 0050 |
| RP/F 1/28 | Ø 1/2" x 8 bar | 0051 |
| RP/F 3/4" | | |
| RP/F 3/4 1,5 | Ø 3/4" x 1,5 bar | 0053 |
| tP/F 3/4 1,8 | Ø 3/4" x 1,8 bar | 0294 |
| RP/F 3/4 2 | Ø 3/4" x 2 bar | 0054 |
| tP/F 3/4 2,5 | Ø 3/4" x 2,5 bar | 0055 |
| RP/F 3/4 3 | Ø 3/4" x 3 bar | 0056 |
| P/F 3/4 3,5 | Ø 3/4" x 3,5 bar | 0289 |
| RP/F 3/4 4 | Ø 3/4" x 4 bar | 0057 |
| P/F 3/4 4,5 | Ø 3/4" x 4,5 bar | 0081 |
| RP/F 3/4 5 | Ø 3/4" x 5 bar | 0058 |
| P/F 3/4 5,5 | Ø 3/4" x 5,5 bar | 0589 |
| RP/F 3/4 6 | Ø 3/4" x 6 bar | 0059 |
| RP/F 3/4 7 | Ø 3/4" x 7 bar | 0060 |
| RP/F 3/4 8 | Ø 3/4" x 8 bar | 0061 |

COMPACT SAFETY RELIEF VALVE

Composition

CWS11L is a free cutting and forging brass in the form of rod. The alloy has very good desiricitation resistance and good machinability. The alloy is lead free and is approved according to the 4AS ist, use for drinking water applications, product groups 8-D. The alloy is also approved by Kiwa Sverige A8 according to Type approval 1303 for components with contact with drinking water.

| CW511L Cu AquaNordic* | Cu | Zn | Pb | Sn | Fe |
|--------------------------|------------|-------|------------|---------|--------|
| | 62.5-63.5% | Rest | <0.1% | ≤0.1% | ≤0.1% |
| | ĀI | Ni | As | Mn | Other* |
| | <0.05% | <0.1% | 0.02.0.000 | CO 0187 | ×0.00m |

*According to 4MS

Dezincification resistance

The alloy is dezinclfication resistant, according to ISO 6509 and AS 2345-2006, Appendix C.

Heat treatment

Stress-relief annealing, Temperature 330-350°C, Time 1-2 hours, Stress-relief annealing should be corried out after all cold working which gives a high risk for residual stresses in the material. A heat treatment may also be justified after machining. Heat treatment eliminates the risk of stress corrosion cracking caused by internal stresses.

Soft annealing (Dezincification resistance annealing). Temperature 500-550°C. Time 1-2 hours,

Mechanical properties

Nordic Brass Gusum quality of AquaNordic® rod, meets and exceeds the quality demands, with 15-30%, defined in the CWB11.1 standards. To give an idea of the mechanical properties some empirical values, according to the material condition." M" in the EN standard, are listed below. These values are to be considered as audieline values for the delivered material.

| Property | Value | Unit | |
|-------------------------|-------|------|--|
| Rm, Tensile strength | >330 | MPa | |
| Rp02, Yield strength | ~240 | MPa | |
| A5, Fracture elongation | >40 | % | |
| Brinell hardness | -95 | НВ | |

Corrosion resistance

Copper is a relatively noble metal. Copper and its alloys therefore show little tendency to react with the environment, As a result of this, the copper materials generally have good corrosion resistance, However, corrosion may occur under disadvantageous unfavorable conditions. The type of corrosion which may occur depends on both the environment and the composition of the alloy.