PED safety manifolds for accumulators type BSA

In line mounting - G 1/2” and G 3/4” threaded ports

PED safety manifolds for accumulators type BSA are equipped with relief valves conforming to PED Directive 2014/68/EU (see tab. SP004). The safety function is ensured by discharging the excess flow across the relief valve (1). They are equipped with manual shut-off valves (2), manual release valve (3) and venting valve with electric driving as optional (4). These manifolds are suitable for any hydraulic circuit where there are one or more accumulators. The manifolds are designed to work in hydraulic systems with oil or synthetic fluids having similar lubricating characteristics.

Max flow: 70, 200 l/min respectively
Pressure up to 350 bar

### 1 MODEL CODE

<table>
<thead>
<tr>
<th>BSA</th>
<th>10</th>
<th>EM</th>
<th>NO</th>
<th>24DC / 235 / PED</th>
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</thead>
<tbody>
<tr>
<td>Safety manifold</td>
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**Size:**
- 05 = G 1/2”
- 10 = G 3/4”
Other sizes are available on request

**Release mode:**
- EM = electric/manual
- M = manual

**Venting solenoid valve:**
- NO = normally open
- NC = normally closed

**PED** = Conforming to 2014/68/EU (tab. C010 - www.atos.com)

### 2 HYDRAULIC CHARACTERISTICS

#### BSA-M

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<tr>
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<td>70</td>
<td>350</td>
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<tr>
<td>10</td>
<td>100</td>
<td>100</td>
<td>200</td>
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#### BSA-EM-NC

#### BSA-EM-NO

### 3 MAIN CHARACTERISTICS

**Installation position:** Any position.

**Hydraulic connection:**

**Fluid:** Hydraulic oil as per DIN 51524...535; for other fluids contact our technical office

**Recommended viscosity:** 15 ± 100 mm²/s at 40°C (ISO VG 15 ± 100)

**Fluid contamination class:** ISO 19/16, achieved with in line filters at 25 μm and β25 ≥ 75 (recommended)

**Fluid temperature:** -20°C +60°C (standard and (WG) seals) -20°C +80°C (PE seals)

**Ambient temperature:** from -15°C to +70°C
FLOW VERSUS PRESSURE DROP DIAGRAMS based on mineral oil ISO VG 46 at 50°C

BSA-05

BSA-10

DIMENSIONS [mm]

| Model  | B  | C  | E  | F  | H  | I  | J  | L  | M  | N  | O  | Q  | R  | S  | U  | V  | W  | X  | Z  | BB | CC | DD | EE | FF | ACC | A  | P  | T  | M* | Mass [Kg] |
|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| BSA-05 | 60 | 96 | 240| 100| 123| 65 | 15 | 87 | 30 | 80 | 23 | 20 | 18.7| 47.5| 30 | 23 | 80 | 70 | 88 | 65 | 45 | 5  | 96 |
| BSA-10 | 27 | 120| 300| 120| 170| 65 | 15 | 137| 55 | 105| 32.5| 25 | 17.6| 50 | 32.5| 25 | 32.5| 70 | 36 | 158| 45 | 45 | 62.5| 110|

Electric connector according to DIN 43650 (must be ordered separately)
For safety reasons BSA manifold is provided with clamping lever locked in the open position. In case you need to unlock the lever, follow the following instructions:

ATTENTION:
- System under pressure before performing any operation turn off and discharge the pressure of the circuit.

1. Pull out the clamping lever, the elastic ring and the pressure washer
2. Rotate 90° clockwise the pressure washer
3. Reinsert the pressure washer
4. Reinsert the elastic ring and the clamping lever