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# Technology Area / 科技領域

蓄壓器p0監控：p0-Guard EDS 3400 Pressure Switch

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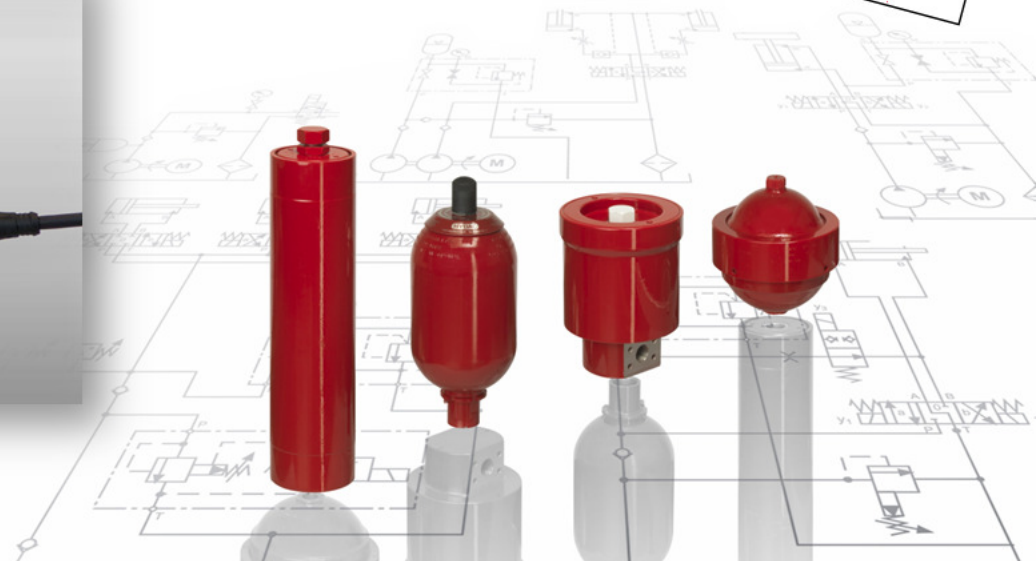


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Speichertechnik / *Accumulators*

Monitoring systems for hydraulic accumulators

p<sub>0</sub>-Guard EDS 3400





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具備安全閥塊的蓄壓器，皆可進行p0-Guard 壓力開關安裝。

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### MODEL CODE

EDS 3 4 4 6 - F31 - XXXX - P00

#### Mechanical connection

4 = G1/4 A ISO 1179-2

#### Electrical connection

6 = male M12x1, 4 pole (connector not supplied)

#### Output

F31 = IO-Link interface

#### Pressure range in bar

0040; 0100; 0250; 0400; 0690

#### Modification number

P00 = p<sub>0</sub>-Guard

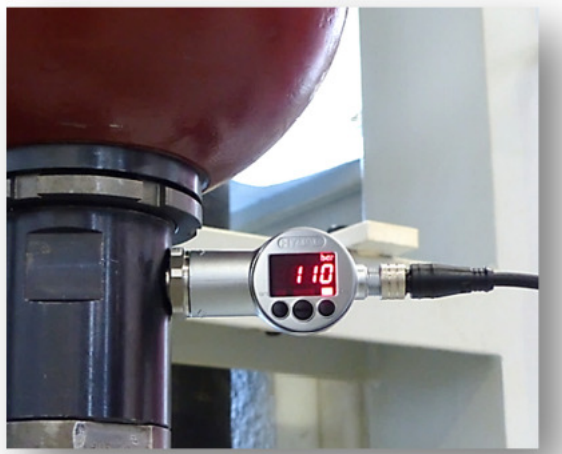
### Special case: Bladder accumulator

Generally, bladder accumulators have an air bleed screw at the oil valve.

If available, the p<sub>0</sub>-Guard can be screwed onto this bore (please note thread size); see figure on the right:

bladder accumulator (e.g. SB330) with EDS.

唯獨皮囊式蓄壓器亦可利用油閥洩放孔，進行p0-Guard 壓力開關安裝。





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低於p0設定的最小值，會發出警報訊號，啟動維修機制

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$$p_{0' \min} = p_{0' \text{ teach}} - \Delta p_{0'}$$

$$FL1 = T.VAL - Td.Lo$$

**example**

$$70 \text{ bar} = 90 \text{ bar} - 20 \text{ bar}$$

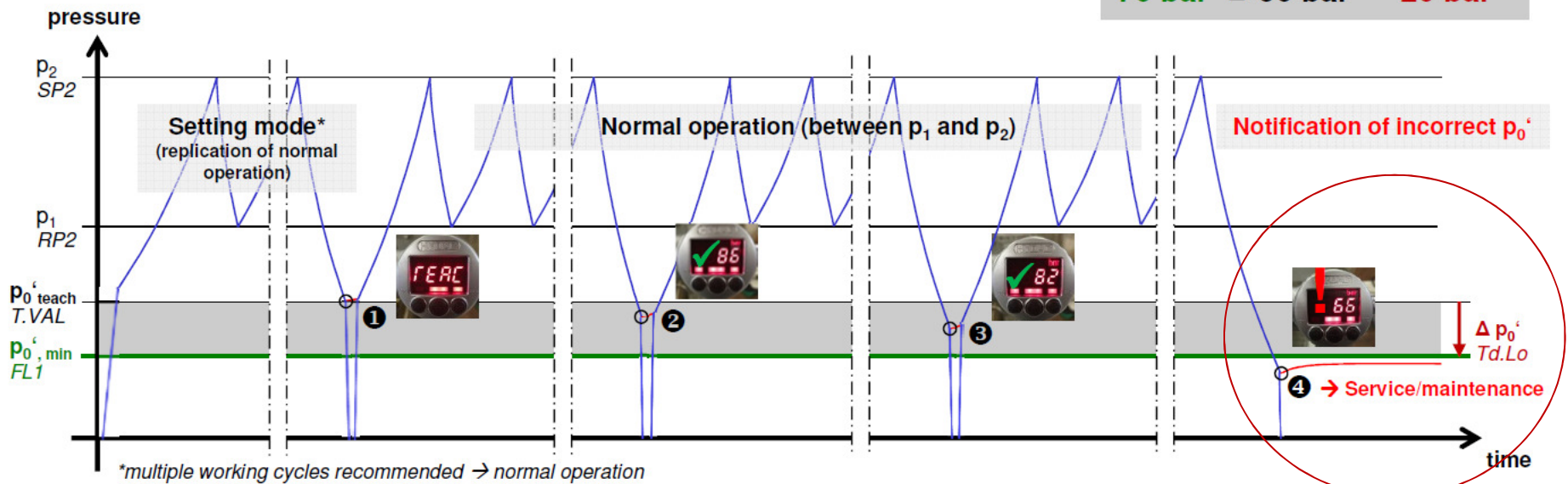
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#### p<sub>0</sub>-Guard EDS 3400 Function example

— Gas pressure  
— System/Oil pressure



\*multiple working cycles recommended → normal operation

① p<sub>0</sub>' measurement „after setting mode“  
→ the p<sub>0</sub>-Guard is taught to the value = p<sub>0</sub>'<sub>teach</sub>  
(example 90 bar)

② ③ System shutdown (p<sub>0</sub>' measurement → p<sub>0</sub>' within tolerance range ✓)

④ System shutdown  
(p<sub>0</sub>' measurement → **Notification**, p<sub>0</sub>' out of tolerance range !)