Services

PRECHARGING

- Accumulators supplied by OLAER Fawcett Christie contain a precharge of 1 to 3 bar unless a specified precharge pressure is required by the customer
- Nitrogen precharge is essential for accumulator operation and to prevent damage to the accumulator. Precharge pressures vary for different applications and are determined by the system operating pressures. 'Rule of thumb' precharge levels exist
- For energy storage applications a precharge pressure equivalent to 90% of the minimum system pressure is generally acceptable. For pulsation damping applications as well as surge or hammer applications precharge is generally set at 65% of the system pressure
- However, these 'rules of thumb' are not valid for all applications and it is recommended that OLAER Fawcett Christie be contacted to confirm suitable precharge pressures. Precharge pressures must be carefully selected to suit each particular application to prevent damage to the accumulator
- For standard bladder type accumulators the maximum system pressure must be less than 4 times greater that the precharge pressure to prevent damage to the accumulator. For nitroball series accumulators it must be less than 6 times. Precharge on alleviators must not exceed 20 bar to prevent bladder extrusion
- Due to the effects of temperature on accumulator performance, gas and fluid temperatures must be considered for each application when selecting precharge pressures
- Precharged accumulators may be considered as dangerous goods. Please note that many transport companies use special services fro transporting dangerous goods. This may result in extended delivery times or incur additional charges. However, precharged goods are generally able to be sent via air freight subject to special precautions and testing being undertaken.
- For higher precharge pressures please contact OLAER

gas volume (litres) : 0 to 70 bar/ 71 to 140/ 141 to 210/ 211 to 280
up to 0.75
1.15
2.5
4
10
20
37
50
57

Services

REPAIR & CERTIFICATION

- Type 'A' service covers disassembly, inspection, installation of replacement parts (if required) and reassembly of the accumulator. Basic consumables of disassembly, such as fluid port o-rings and back-up rings and an external warning label are also included.
- Type 'B' service includes all that is in type 'A' with an external sandblast, repainting and boxing as well as a new metal identification label
- Type 'C' service is a type 'A' service with documented pressure vessel recertification to AS 3788
- Accumulator shell condition is evaluated using electromagnetic non-destructive testing method and fibre optic surface inspection techniques witnessed by an approved boiler inspector
- Type 'D' service is a type 'B' service with documented pressure vessel recertification to AS 3788
- Prices listed below do not include any replacement part costs (other than those specified), precharging or transport costs. All repair costs are quoted prior to commencing repairs