

Auxiliary Equipment y4 February 3, 2012

1. Sketch a relief v/v for a fuel transfer pump and state why it is necessary

2 With reference to positive displacement pump explain the pulsation damper

Why some don't need it

3 Sketch a cross section of a valve for a fire main with materials

4. With respect to an air system why a fusible plug in compressor and receiver

5. What do you need to achieve the angular limit of steering gear how much is needed how is it done

Sketch a rotary vane and an axial piston pump and explain

6. Four causes of a pneumatic clutch failing

Two consequences of overheating

7. The advantages and disadvantages of helix and spur gears

8. why you need some angle of pitch to maintain neutral

What is the fail safe position

How is pitch restored in case of hydraulic failure

9. in the case of an intermediate roller bearing how do you allow for misalignment fore aft and vertical

10 Sketch how a breaker limits heat transfer damage in case of overcurrent