Fluid Hammer Effect

What are common causes of fluid hammer?

- ◯ Rapid manual valve opening or closing. ✅
- ◯ Too high-speed settings on remotely operated valves. ✅
- ◯ Overuse of swing valves.
- ◯ Closed discharge valves.

Which type of fluid hammer is typically encountered within ballast water, cargo and engine cooling systems?

- ◯ Hydraulic shock. ✅
- ◯ Differential shock.
- ◯ Thermal shock.
- ◯ Piston shock.

How can you prevent the risk of a slug forming in compressed air systems?

- ◯ Open the inlet valve slowly. ✅
- ◯ Open the inlet valve quickly.

What is the fluid hammer effect?

- ◯ The sudden increase in pressure inside a pipe. ✅
- ◯ The sudden decrease in pressure inside a pipe.
- ◯ The use of high-pressured water to clean inside a pipe.
- ◯ The use of high-pressure steam to clean inside a pipe.

What are some of the possible effects of fluid hammer?

- ◯ Damage to pumps, valves and filters. ✅
- ◯ Chemical and oil cargo contamination. ✅
- ◯ Fractured pipework. ✅
- ◯ Damage to ballast water tanks.