## Translations:Bélier hydraulique/53/en

- 1. When priming, water flowing into the inlet line flows into the weir through the primary valve.
- 2. The acceleration of the water causes the primary valve to close suddenly.
- 3. The water column is suddenly braked and generates an overpressure in the pump casing (water hammer), which opens the internal valve.
- 4. Under the effect of this overpressure, water flows into the balloon (and the discharge duct), compressing the air volume until the pressures are balanced.
- 5. The pressure reversal closes the internal valve.
- 6. The water trapped under pressure in the balloon empties into the discharge line until the pressures are balanced (determined by the height of the pipe).
- 7. The closing of the internal valve has caused the pressure to drop, so the primary valve opens again. A new cycle begins....