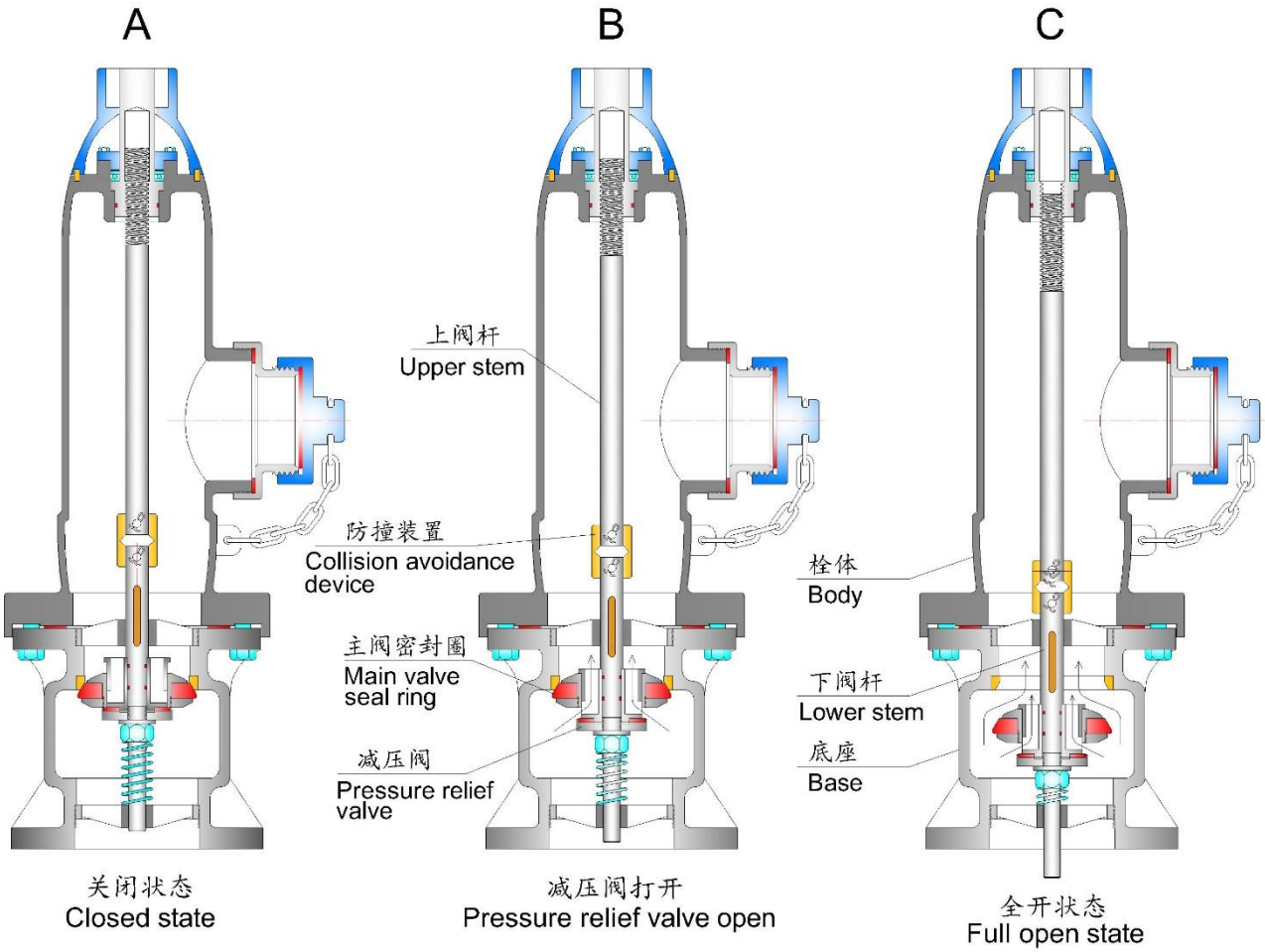
防撞减压说明
Anti-collision and decompression principle



1、A 图所示：消防栓处于关闭状态且密封圈与密封座紧密联合；

Figure A shows that the fire hydrant is closed and the sealing ring is tightly combined with the sealing seat.

2、B 图所示：当开启时，阀杆推动减压阀，减压阀打开，高压水流从减压阀芯孔中流出，逐渐泄压，降压开启压力，达到减压目的；

Figure B shows that when opened, the stem pushes the pressure relief valve, the pressure relief valve opens, and high-pressure water flows out of the core hole of the pressure relief valve, gradually releasing pressure, reducing the pressure opening pressure, so as to achieve the purpose of pressure relief.

3、C 图所示：当减压阀开启后，阀杆继续推动，直至阀门完全打开，水流即按设计流量排出；

Figure C shows that when the pressure relief valve is opened, the stem continues to push until the valve is fully opened, and the water flow is discharged according to the designed flow rate.

4、防撞原理：当栓体受外力，碰撞时上下阀杆连接的折断螺母就会断开，主阀密封就会受弹簧和水压的作用，紧密闭合，不会造成泄漏。

Anti-collision principle: When the bolt body is subjected to external force, the broken nut connecting the upper and lower stem will be broken when colliding, and the seal of the main valve will be closely closed by the spring and water pressure, so as not to cause leakage.