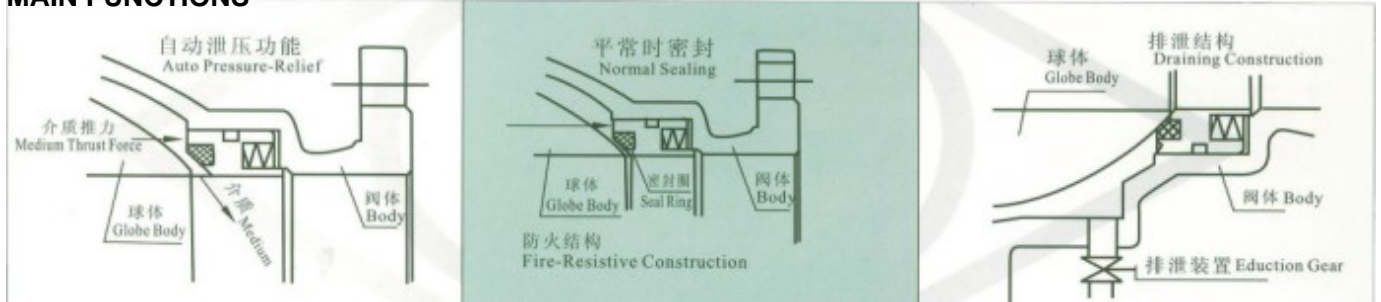
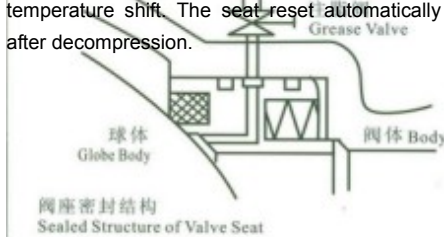


PIPELINE BALL VALVE FOR LONG-DISTANCE TRANSPORTATION

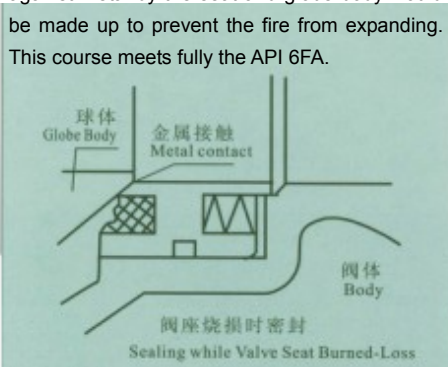
MAIN FUNCTIONS



The pressure of the medium would press the valve seat off from globe body to make an auto-decompression realization when the pressure of the medium remained in the lumen of the valve increases abnormally caused by temperature shift. The seat reset automatically after decompression.



The valve is still reliable on occasion of fire hazard happens or the seal ring on the valve seat burned or softened caused by abnormal temperature-rise. Meanwhile, the contact of metal against metal by the seat and globe body would be made up to prevent the fire from expanding. This course meets fully the API 6FA.



After the education gear being screwed-off, the valve seat could be checked for leakage, and vented to reduce the medium from polluting the valve. When the valve stays at full-open or full-close position under operating model, the stuffing box on stem could be replaced.



Besides normal sealing measures, the specially-mounted auxiliary sealed construction on the valve seat can work to first-aid the leakage caused by the damage of the seal ring.

The double sealing of stuffing PTFE and O-ring is applied for sealing the part of stem, thus this measure is applicable especially for gaseous medium. The high-quality self-lubricating bearing SF is utilized on the motion parts of the handle to minimize the coefficient of friction and reduce operating physical force.

MAIN PARTS AND MATERIALS

| NO. | Accessory name | Material | |
|-----|-----------------|--------------------------------|--------------|
| | | GB | ASTM |
| 1 | Body | WCB A105 | A182 F316 |
| 2 | Spring | 60Si2Mn | 316 |
| 3 | Sealing Ring | | RPTFE |
| 4 | Gasket | Graphite stainless steel | Graphite+316 |
| 5 | Blow off screw | 25 | 316 |
| 6 | O-Ring | Rubber | Rubber |
| 7 | Bottom cover | A105 | 316 |
| 8 | Screw | 35 | 316 |
| 9 | Stem | 2cr13+nickel coated phosphorus | 316 |
| 10 | Sliding bearing | PTFE& stainless steel | 316+PTFE |
| 11 | Ball | A105 | A182 F316 |
| 12 | Seat | A105 | 316 |
| 13 | Stud | 35CrMoA | 316 |
| 14 | Nut | 35 | 316 |
| 15 | Cover | A105 | 316 |
| 16 | Stuffing | PTFE | PTFE |
| 17 | Gland | WCB | A216-WCB |
| 18 | Key | 45 | 316 |



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MAIN PERFORMANCE AND SPECIFICATIONS

| PN (Mpa) Nominal pressure | The highest | Test pressure | | | Pressure class | The highest | Test pressure | | |
|--|-----------------------------|---------------|--|---------------------------------|-------------------|----------------|---------------|---------------------------------|---------------------------------|
| | (Mpa) | Shell | High-pressure liquid sealing | Low-pressure heretic sealing | | (Mpa) | Shell | High-pressure liquid sealing | Low-pressure heretic sealing |
| 1.6 | 1.6 | 2.4 | 1.76 | 0.6 | CLASS1 50 | 1.94 | 2.94 | 2.16 | 0.6 |
| 2.5 | 2.5 | 3.7 5 | 2.75 | | CLASS3 00 | 5.1 | 7.67 | 5.62 | |
| 4.0 | 4.0 | 6.0 | 4.4 | | CLASS6 00 | 10.2 | 15.3 | 11.23 | |
| 6.4 | 6.4 | 9.6 | 7 | | CLASS9 00 | 15.1 | 23 | 16.85 | |
| 10.0 | 10.0 | 15 | 11 | | CLASS1 500 | 25.1 | 37.5 | 27.5 | |
| Applicable Specification | Physical dimension follows | | GB12221-89 | | ANSI B16.10 | | | | |
| | Flange dimension follows | | JB79-59 | GB 9113 | HG20592-97 | ANSI B16.5 | | | |
| | Welding standard follows | | GB12224-89 | | ANSI B 16.25 | | | | |
| | Test and inspection follows | | JB/T 9092-99 | | API 598 | | | | |
| Applicable Operating Model | Applicable medium | | Natural gas, liquefied gas, petroleum and other medium | | | | | | |
| | Applicable temperature | | -28℃~≤150℃ | | | | | | |
| | Driving manner | | Worm gear, air operated, electric driving, combined air and hydraulic driving etc. | | | | | | |
| Please refer to the sample book of form of Main Types and Connecting Dimension for particular installation dimension | | | | | | | | | |