

# Bronze & Brass Valves

JIS 5K/10K, ASME Class 125/150/300, KITZ Type 100/125/150/300/400/600





As a world leading manufacturer of general service valves, KITZ Corporation is glad to present you a broad range of our KITZ bronze/brass valves for your commercial and industrial applications.

KITZ bronze/brass valves are produced in modern factories used exclusively for valve manufacturing. Each phase of the manufacturing process, from selection of raw materials to casting, forging, machining, assembly and testing, has been improved with automated production facilities and unparalleled production technology. Standardization and automation yield KITZ bronze/brass valves of superior quality and higher uniformity at competitive prices supported by incomparably prompt delivery.

KITZ bronze/brass valves are all designed by the state-of-the-art computers, built by automation and inspected by the people who care the quality.

## Presenting Design Features of KITZ Bronze/Brass Valves

### Human Engineering in Handwheel Design

Computer designed handwheels of all KITZ bronze/brass valves, the product of KITZ human engineering, are featured with an ideal combination of an operational efficiency and high mechanical strength for reliability.

### Asbestos-free Gland Packings

All KITZ bronze/brass gate and globe valves employ Aramid Fiber PTFE as the material of asbestos-free gland packing, meeting the latest industrial demand to minimize pollutional concerns. With its leak-free sealing performance and reduced valve operating torque, Aramid Fiber PTFE is considered a reliable substitution for conventional asbestos sheet for service of water, oil, gas and saturated steam pressure of maximum 300psi within the temperature range up to 300°C.

### Pressure Rating

The pressure rating designation of KITZ valves follows the accepted practice of the valve and pipe fitting industry today. Each product is rated for W.O.G. (Non-shock cold water, oil, and gas\*) and Saturated steam pressure service.

### Inspection and Testing

KITZ valves are manufactured under strict quality control throughout all stages of production, beginning with inspection of chemical composition and mechanical properties of materials. Extra care is given to inspection and testing at all machine shops and assembly plants, utilizing up-to-date precision equipment. All KITZ valves are subjected to strict pressure testing of body and seat sealing to assure long-life service and quality performance.

\*The valves introduced in this catalog are not designed to handle toxic gases. Use specially designed or certified valves for flammable gas service.

KITZ Corporation, Nagasaki Plant, Japan (ISO 9001)



KITZ (Thailand) Ltd, Bangkok Plant, Thailand (ISO 9002)

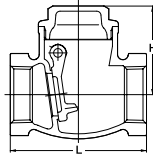
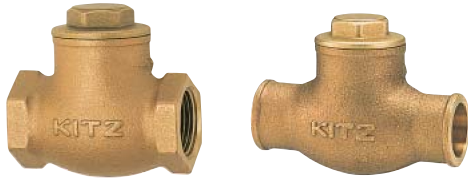


This catalog use MPa, a SI unit, for indication of pressures. For readers' convenience, however psi is also used for ASME and JIS related products respectively. The products introduced in this catalog are all covered by the ISO 9001 Certification.

# CLASS 125 BRONZE SWING CHECK VALVE

Screwed Cap, Swing type disc  
Threaded ends to BS21 (JIS B0203) or NPT, or solder joint ends.

W.O.G. non-shock 1.38 MPa (200 psi), Saturated steam pressure 0.86 MPa (125 psi)



### Materials

| Parts     | Material      |
|-----------|---------------|
| Body      | Bronze        |
| Cap       | Brass/Bronze* |
| Hinge pin | Brass         |
| Disc      | Brass/Bronze* |

\*Size 4 only

**Caution** Solder joint end valves should not be used in service where the temperature of line fluid is higher than the softening point of solder.

Fig. R

- Threaded end to BS21 (JIS B0203)

Fig. AKR

- Threaded end to ASME B1.20.1

Fig. CR

- Solder joint ends to JIS B2011 / ASME B16.18 (2 1/2 & 3)

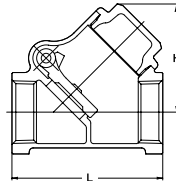
### Dimensions

| Nominal Size          | inch | 3/8 | 1/2 | 3/4 | 1   | 1 1/4 | 1 1/2 | 2   | 2 1/2 | 3   | 4   |
|-----------------------|------|-----|-----|-----|-----|-------|-------|-----|-------|-----|-----|
|                       | mm   | 10  | 15  | 20  | 25  | 32    | 40    | 50  | 65    | 80  | 100 |
| L Threaded end to end | 53   | 60  | 70  | 80  | 92  | 102   | 122   | 150 | 165   | 195 |     |
| L1 Solder             | 56   | 67  | 89  | 104 | 120 | 134   | 164   | 193 | 213   |     |     |
| H Height              | 39   | 39  | 45  | 52  | 62  | 67    | 79    | 91  | 102   | 119 |     |

# CLASS 125 BRONZE Y-PATTERN SWING CHECK VALVE

Screwed cap, Swing type disc,  
Threaded ends to BS21 (JIS B0203)

W.O.G. non-shock 1.38 MPa (200 psi), Saturated steam pressure 0.86 MPa (125 psi)



### Materials

| Parts     | Material |
|-----------|----------|
| Body      | Bronze   |
| Cap       | Brass    |
| Hinge pin | Copper   |
| Disc      | Bronze   |

**Caution** Solder joint end valves should not be used in service where the temperature of line fluid is higher than the softening point of solder.

Fig. YR

- Threaded end to BS21

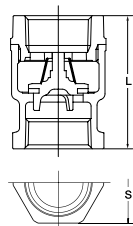
### Dimensions

| Nominal Size          | inch | 1/2 | 3/4 | 1  | 1 1/4 | 1 1/2 | 2   | 2 1/2 | 3  |
|-----------------------|------|-----|-----|----|-------|-------|-----|-------|----|
|                       | mm   | 15  | 20  | 25 | 32    | 40    | 50  | 65    | 80 |
| L Threaded end to end | 56   | 70  | 80  | 95 | 110   | 128   | 158 | 184   |    |
| H Height              | 40   | 49  | 58  | 71 | 80    | 95    | 114 | 131   |    |
| H Solder              | 38   | 47  | 56  | 69 | 77    | 92    | 111 | 127   |    |

# CLASS 150 BRONZE LIFT CHECK VALVE

Screwed Cap, Lift type disc  
Threaded ends to BS21 (JIS B0203) or NPT, or solder joint ends.

W.O.G. non-shock 1.72 MPa (250 psi)



### Materials

| Parts | Material |
|-------|----------|
| Body  | Bronze   |
| Cap   | Bronze   |
| Disc  | NBR      |

Fig. RF

- Threaded end to BS21 (JIS B0203)

Fig. AKAF

- Threaded end to ASME B1.20.1

Fig. CAF

- Solder joint ends to ASME B16.18

### Dimensions

| Nominal Size          | inch | 1/2 | 3/4 | 1  | 1 1/4 | 1 1/2 | 2  |
|-----------------------|------|-----|-----|----|-------|-------|----|
|                       | mm   | 15  | 20  | 25 | 32    | 40    | 50 |
| L Threaded end to end | 53   | 59  | 67  | 78 | 84    | 98    |    |
| L1 Solder             | 61   | 76  | 89  | 97 | 110   | 132   |    |
| S (AKAF)              | 26   | 32  | 39  | 48 | 54    | 67    |    |
| S (RF)                | 28   | 34  | 41  | 50 | 57    | 70    |    |