JERGUSON®
A Product of Clark-Reliance

# 360 Series Safety Ballcheck Valves

intercontrol


# Innovative Core Design Locating an Internal Ballcheck within a Metal Seated Valve

## Patented design eliminates operator error, improves safety and reliability

- Improves safety by eliminating false level readings during commissioning
- Quarter turn position visible handle indicates open or closed
- Low emission certified to API 641 & ISO 15848–1
- Meets API Class V shut–off requirements
- 900#ANSI Pressure Rating
- All wetted components comply with NACE MR0103 and MR0175
- Clean–out port allows for quick inspection of internals or as a flushing port
- Lock–out / tag–out capable, standard

**Innovative Design Guarantees Proper Commissioning**

The Jerguson 360 Series valve is equipped with many features that elevate its performance above traditional style safety ballcheck valves. Designed to alleviate a widespread problem, the 360 Series' bypass mode seeks to remove guess work or operator error during commissioning. The quarter turn position— visible handle provides clear operation status and a locking pin to secure its position. **Patent # US9,377,113B2**

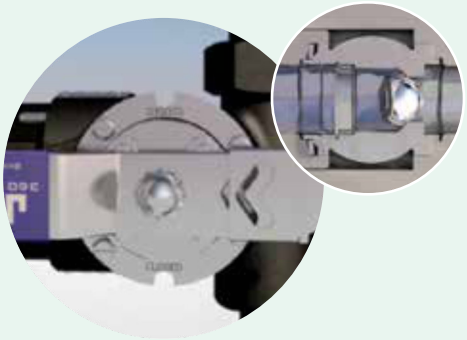
**Simplified Commissioning**

As opposed to traditional ballcheck valves, it is impossible to get a false level reading with a 360 Series valve during commissioning. When using a traditional ballcheck valve and commissioning a gage assembly when there is already liquid present in the vessel, it is common for the operator to open the valve too quickly, causing the ballcheck to engage and the level gage to display a false level reading!

**Simplified Commissioning: Watch for the video at** www.jerguson.com/360–series


With liquid present in the vessel, open the top valve to By–Pass position.

Then open the bottom valve to the bypass position. Fluid will now flow through the valve and into the glass without seating the ballcheck.



Once the level stops rising, move both valves to the run position. Now, the valves are ready for normal operation. If your level gage is not maintained properly or a leak occurs, the ballcheck will engage and isolate the gage from the vessel.

# Liquid Level Valves

## How to Specify 360 Series Safety Ball check Valves

364S–A –1– A04–A04–A04–A04–

**Gage Connection Type**

| Code | Description |
|---|---|
| 3S | Set, Non–Union Gage Connection |
| 4S | Set, Union Gage Connection |
| 3T | Top Valve, Non–Union Gage Connection |
| 3B | Bottom Valve, Non–Union Gage Connection |
| 4T | Top Valve, Union Gage Connection |
| 4B | Bottom Valve, Union Gage Connection |

**Body Material**

| Code | Description |
|---|---|
| A | A105N Carbon Steel |
| T | A182 316/316L Stainless Steel |
| LC | Hastelloy C276 |

**Trim Material**

| Code | Description |
|---|---|
| 1 | 316SS Nitride Coated Seat & Ball; Inconel Stem |
| 2 | Hastelloy C276 Ball & Stem; Teflon Seat |

**Process Connection**

| Style Code | Description | Size Code | Description | Sizes Valid with Styles |
|---|---|---|---|---|
| A | FNPT | 04 | 1/2" (DN15) | A, B, C, D, F, G |
| B | FSW | 06 | 3/4" (DN20) | A, C, D, F, G |
| C | MNPT | 08 | 1" (DN25) | C, D, F, G |
| D | MSW | 12 | 1–1/2" (DN40) | F, G |
| F | RF ASME Flange | 16 | 2" (DN50) | F, G |
| G | RF DIN Flange | 00 | N/A | K |
| K | No Connection | | | |

**Options**

| Code | Description |
|---|---|
| Blank | Standard |
| WN | Weld Neck Flanges |
| RJ | Ring Joint Flanges |
| SG | Spherical Union Gage Connection |

**Clean–Out Connection Size**

| Code | Description | Note |
|---|---|---|
| A04 | 1/2" FNPT | Factory Default when 1/2" size vent/drain is specified |
| A06 | 3/4" FNPT | Factory Default when 3/4" size vent/drain is specified |

*Contact factory for special connections

**Vent or Drain Connection**

| Style Code | Description | Size Code | Description | Sizes Valid with Styles |
|---|---|---|---|---|
| A | FNPT | 04 | 1/2" (DN15) | A, B, F, G |
| B | FSW | 06 | 3/4" (DN20) | A, B, F, G |
| F | RF ASME Flange | 08 | 1" (DN25) | F, G |
| G | RF DIN Flange | 12 | 1–1/2" (DN40) | F, G |
| K | No Connection | 16 | 2" (DN50) | F, G |
| | | 00 | N/A | K |

**Gage Connection**

| Style Code | Description | Size Code | Description | 363 Sizes Valid with Styles | 364 Sizes Valid with Styles |
|---|---|---|---|---|---|
| A | FNPT | 04 | 1/2" (DN15) | A, B, F, G | A, B, C, D, F, G |
| B | FSW | 06 | 3/4" (DN20) | A, B, F, G | A, C, D, F, G |
| C | MNPT | 08 | 1" (DN25) | F, G | C, D, F, G |
| D | MSW | 12 | 1–1/2" (DN40) | F, G | F, G |
| F | RF ASME Flange | 16 | 2" (DN50) | F, G | F, G |
| G | RF DIN Flange | 00 | N/A | K | K |
| K | No Connection | | | | |

**Carbon Steel**
Series 360 Temperature/Pressure

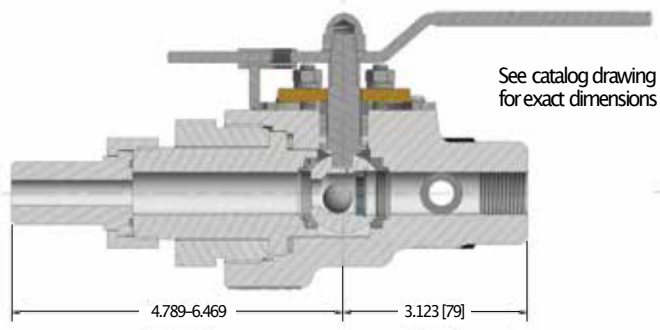
| Temp. | | Pressure | | | |
|---|---|---|---|---|---|
| °F | °C | PSI | BarG | Kg/cm² | kPaG |
| 100 | 38 | 220 | 153 | 156 | 15306 |
| 200 | 93 | 203 | 5 140 | 143 | 14031 |
| 300 | 149 | 196 | 5 135 | 138 | 13548 |
| 400 | 204 | 190 | 0 131 | 134 | 13100 |
| 500 | 260 | 181 | 0 125 | 127 | 12480 |
| 600 | 316 | 170 | 5 118 | 120 | 11756 |
| 700 | 371 | 159 | 0 110 | 112 | 10963 |
| 800 | 427 | 123 | 5 85 | 87 | 8515 |

Not recommended for steam service

**316SS**
Series 360 Temperature/Pressure

| Temp. | | Pressure | | | |
|---|---|---|---|---|---|
| °F | °C | PSI | BarG | Kg/cm² | kPaG |
| 100 | 38 | 216 | 0 149 | 152 | 14893 |
| 200 | 93 | 186 | 0 128 | 131 | 12824 |
| 300 | 149 | 168 | 0 116 | 118 | 11583 |
| 400 | 204 | 154 | 0 106 | 108 | 10618 |
| 500 | 260 | 143 | 5 99 | 101 | 9894 |
| 600 | 316 | 135 | 5 93 | 95 | 9342 |
| 700 | 371 | 130 | 5 90 | 92 | 8998 |
| 800 | 427 | 126 | 5 87 | 89 | 8722 |

Not recommended for steam service




See catalog drawing for exact dimensions