

For use in China, Europe, Middle East, North America and South East Asia only.

# K-Ball Series 171 and 172

## Floating Ball Valves

| Model / Series | Size | End Connection | Drilling / Schedule | Face-to-Face | Pressure Rating | Body Material | Ball Material | Stem Material | Seat Material | Sealing Material | Mounting Type | Actuation Type | Optional Feature 1 | Optional Feature ... | Actuation Option |
|----------------|------|----------------|---------------------|--------------|-----------------|---------------|---------------|---------------|---------------|------------------|---------------|----------------|--------------------|----------------------|------------------|
| 171SF          | 0008 | R3             | PG                  | 00           | CC              | CA            | S00           | S0            | T0            | P0               | I             | L              | NP1                | TPZ                  | GS-001           |



### Model / Series

| Code  | Description           |
|-------|-----------------------|
| 171SF | Series 171, Full Bore |
| 172SF | Series 172, Full Bore |

### Size

| Code | Description    |
|------|----------------|
| 0008 | DN 8 / NPS ¼   |
| 0010 | DN 10 / NPS ¾  |
| 0015 | DN 15 / NPS ½  |
| 0020 | DN 20 / NPS ¾  |
| 0025 | DN 25 / NPS 1  |
| 0032 | DN 32 / NPS 1¼ |
| 0040 | DN 40 / NPS 1½ |
| 0050 | DN 50 / NPS 2  |
| 0065 | DN 65 / NPS 2½ |
| 0080 | DN 80 / NPS 3  |
| 0100 | DN 100 / NPS 4 |
| ZZZZ | Special        |

### End Connection

| Code | Description                                      |
|------|--|
| R3   | Flange - ASME Raised Face (RF) - 125 to 250 AARH |
| BF   | Butt Weld - ASME B 16.25                         |
| SE*  | Screwed Ends (Threaded)                          |
| SW   | Socket Weld - ASME B16.11                        |
| S2   | Socket Weld - Tube / Nipple Extension            |
| BZ   | Butt Weld - Welded Pipe or Extended Pups         |
| H3   | Hub/Clamp - Tri-Clamp                            |
| T0   | Orbital Tubing (OD Tube)                         |
| MM   | Multiple / Mixed End Connection                  |
| ZZ   | Special  |

### Drilling / Schedule

| Code | Description               |
|------|---------------------------|
| PG   | PN 25 / 40                |
| W1   | Schedule 10               |
| W4   | Schedule 40               |
| BT   | BSPT (Female)             |
| BP*  | BSPP (Female)             |
| NT*  | NPT (Female)              |
| AC   | Socket Weld End           |
| NA   | Not Applicable            |
| 2R   | BSPP / BSPT               |
| 2S   | BSPP / NPT                |
| 2N   | BSPP / Schedule 10        |
| 2P   | BSPP / Schedule 40        |
| 2T   | BSPP / Schedule 5         |
| 2U   | BSPP / Socket Weld        |
| 1C   | BSPT / BSPP               |
| BN   | BSPT / NPT                |
| 2W   | BSPT / Schedule 10        |
| 1A   | BSPT / Schedule 40        |
| 1D   | BSPT / Schedule 5         |
| BS   | BSPT / Socket Weld        |
| 1R   | NPT / BSPP                |
| 1Q   | NPT / BSPT                |
| 1M   | NPT / Schedule 10         |
| 1N   | NPT / Schedule 40         |
| 1L   | NPT / Schedule 5          |
| NS   | NPT / Socket Weld         |
| 1X   | Schedule 10 / BSPP        |
| 1V   | Schedule 10 / BSPT        |
| 1W   | Schedule 10 / NPT         |
| 1T   | Schedule 10 / Schedule 40 |
| 1S   | Schedule 10 / Schedule 5  |
| 1Y   | Schedule 10 / Socket Weld |

| Code | Description               |
|------|---------------------------|
| 2E   | Schedule 40 / BSPP        |
| 2C   | Schedule 40 / BSPT        |
| 2D   | Schedule 40 / NPT         |
| 2A   | Schedule 40 / Schedule 10 |
| 2X   | Schedule 40 / Schedule 5  |
| 2F   | Schedule 40 / Socket Weld |
| 3M   | Schedule 5 / BSPP         |
| 3N   | Schedule 5 / BSPT         |
| 3P   | Schedule 5 / NPT          |
| 3R   | Schedule 5 / Schedule 10  |
| 3S   | Schedule 5 / Schedule 40  |
| 3T   | Schedule 5 / Socket Weld  |
| 1K   | Socket Weld / BSPP        |
| 1H   | Socket Weld / BSPT        |
| 1J   | Socket Weld / NPT         |
| 1E   | Socket Weld / Schedule 10 |
| 1F   | Socket Weld / Schedule 40 |
| 3U   | Socket Weld / Schedule 5  |
| ZZ   | Special                   |

### Face-to-Face

| Code | Description                            |
|------|--|
| 00   | Standard (Refer to Product Literature) |
| 01   | EN558 Series 01                        |
| ZZ   | Special                                |

### Pressure Rating

| Code | Description                   |
|------|-------------------------------|
| CC   | ASME 300 / 740 CWP / PN 40    |
| CA   | ASME 400 / 1000 CWP / PN 63   |
| ZZ   | Pressure Rating not Specified |

|                |      |                |                     |              |                 |               |               |               |               |                  |               |                |                    |                      |                  |
|----------------|------|----------------|---------------------|--------------|-----------------|---------------|---------------|---------------|---------------|------------------|---------------|----------------|--------------------|----------------------|------------------|
| Model / Series | Size | End Connection | Drilling / Schedule | Face-to-Face | Pressure Rating | Body Material | Ball Material | Stem Material | Seat Material | Sealing Material | Mounting Type | Actuation Type | Optional Feature 1 | Optional Feature ... | Actuation Option |
|                |      |                |                     |              |                 |               |               |               |               |                  |               |                |                    |                      |                  |

**Body Material**

| Code | Description               |
|------|---------------------------|
| CA   | Carbon Steel A216 WCB     |
| SE*  | Stainless Steel A351 CF8M |
| ZZ   | Special                   |

**Ball Material**

| Code | Description         |
|------|---------------------|
| S00* | Stainless Steel 316 |
| ZZZ  | Special             |

**ACTUATION NOTES**

\* Indicates standard configuration.

1. This document is intended for product model code decodification, not product configuration. Option availability and compatibility may be dependent on the selection of another option. For product configuration support, consult your local Emerson representative.
2. This list of options is not exhaustive. Consult your local Emerson representative for additional options.

**Stem Material**

| Code | Description   |
|------|---|
| S0*  | Stainless Steel 316   |
| U0   | Stainless Steel Duplex                                      |
| SH   | Stainless Steel 17-4 PH / Type 630 H1150 D (NACE compliant) |
| ZZ   | Special   |

**Seat Material**

| Code | Description               |
|------|---------------------------|
| T0*  | PTFE                      |
| RC   | RPTFE (50% SS Filled)     |
| RB   | RPTFE (25% Carbon Filled) |
| ZZ   | Special                   |

**Sealing Material**

| Code | Description |
|------|-------------|
| P0*  | PTFE        |
| ZZ   | Special     |

**Operator Mounting Type**

| Code | Description |
|------|-------------|
| I    | ISO 5211    |

**Actuation Type**

| Code | Description            |
|------|------------------------|
| L    | Default Handle / Lever |

**Optional Features**

| Code | Description                        |
|------|------------------------------------|
| NP1  | Additional 316 Stainless Steel Tag |
| TPZ  | Special Hydrostatic Test Report    |

**Additional Actuation Options**

| Code     | Description                                |
|----------|--|
| PS-##### | Standard Pneumatic Actuator <sup>[1]</sup> |
| HZ       | Other Handle <sup>[2]</sup>                |
| GZ       | Other Gear Operators <sup>[2]</sup>        |
| PZ       | Other Pneumatic Actuators <sup>[2]</sup>   |
| EZ       | Other Electric Actuators <sup>[2]</sup>    |

**GENERAL NOTES**

1. Additional characters identify actuator configuration.
2. Required operator, mounting and accessory part number(s) are specified per order acknowledgment.

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