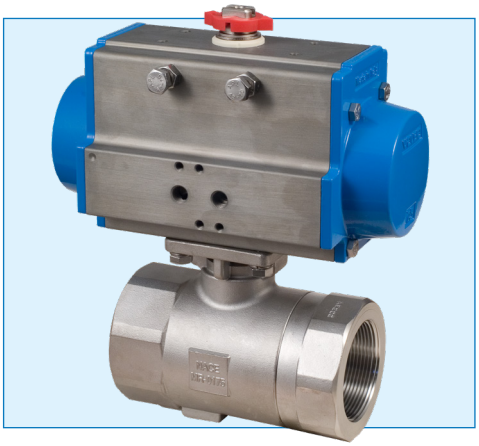


| | |
|---|---|
| JOB NAME: | CONTRACTOR: |
| JOB LOCATION: | APPROVAL: |
| ENGINEER: | CONTRACTOR P.O.: |
| APPROVAL: | REPRESENTATIVE: |

# 8P3100

**3100 2-WAY STAINLESS STEEL, FNPT THREADED DIRECT MOUNT BALL VALVE WITH DOUBLE ACTING ACTUATOR**

**SIZES 1/4" TO 2"**

# 8P3102

**3100 2-WAY STAINLESS STEEL, FNPT THREADED DIRECT MOUNT BALL VALVE WITH SPRING RETURN ACTUATOR**

**SIZES 1/4" TO 2"**

## SPECIFICATIONS

The Bonomi 8P3100/8P3102 series pneumatic actuated package features a 3000 psi investment cast ASTM A351-CF8M stainless steel ball valve, with an ISO 5211 direct mount pad and square stem. The valve also features Delrin seats and a grounded ball & stem.
The Valbia pneumatic actuator comes with a hard-anodized aluminum body, and powder coated end caps. In addition, all Valbia pneumatic actuators are standardly furnished with elevated temperature seals to 302°F. The patented side loaded limit stops never enter the piston chamber eliminating extra possible leak paths.

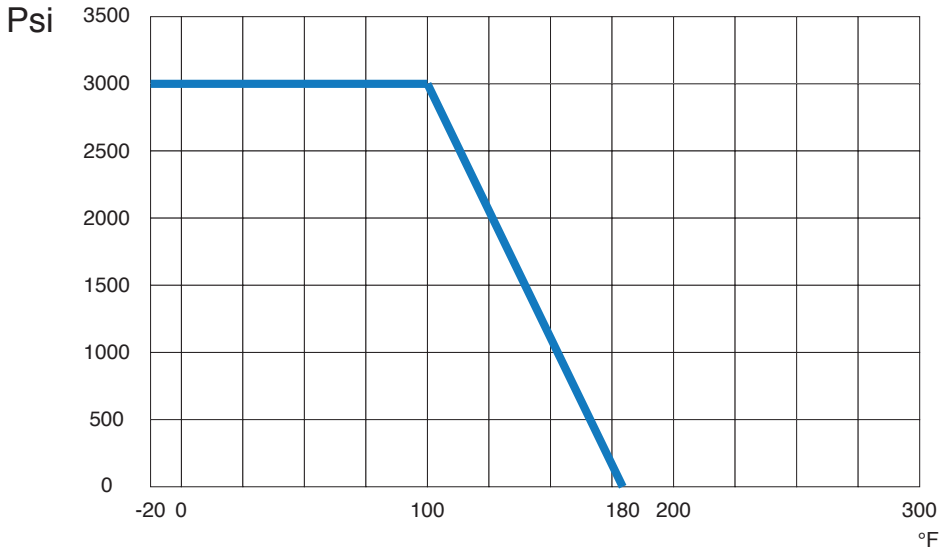
## ACTUATOR FEATURES

- Hard anodized extruded aluminum body
- Concentric spring sets
- Die cast aluminum end caps
- Solid steel barstock pinion (not casting)
- 0°-90° rotation adjustment cam
- 0°-90° rotation adjustment bolts
- POM piston guides
- Mininum air pressure rating: 80 psi
- Maximum air pressure rating: 116 psi
- Working temperature: -4°F - 302°F
- No lubrication maintenance required for the entire actuator lifetime
- 100% factory tested

## VALVE FEATURES

- 2-piece CF8M body
- Full port, sizes 1/4" to 1-1/2"
- Reduced port, sizes 2"
- Blow out proof stem/anti-static design
- Pressure rating 3000 psi (100°F)
- Temperature range -20°F to 185°F
- ISO 5211 mounting pad

## PRESSURE - TEMPERATURE CHART FOR SERIES 3100




VALPRES VALBIA

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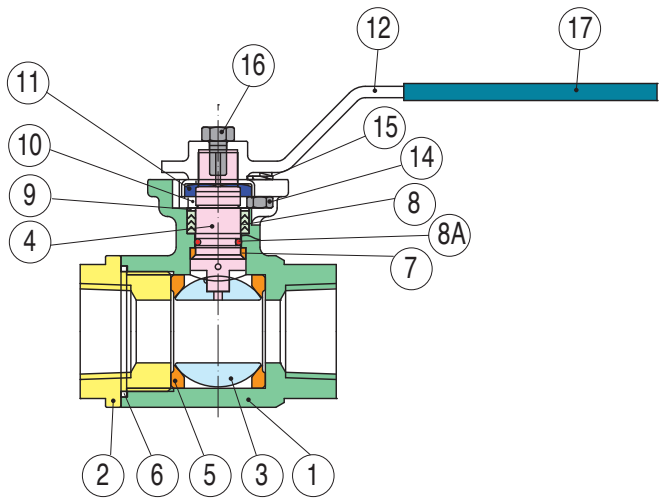
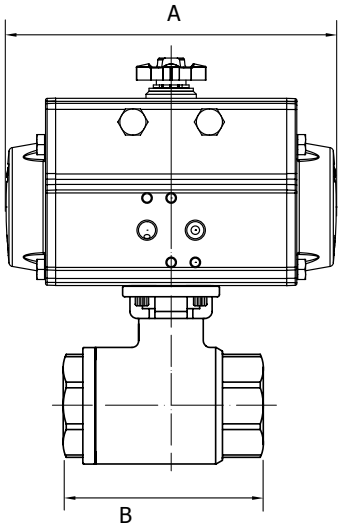
# BILL OF MATERIALS FOR 3100

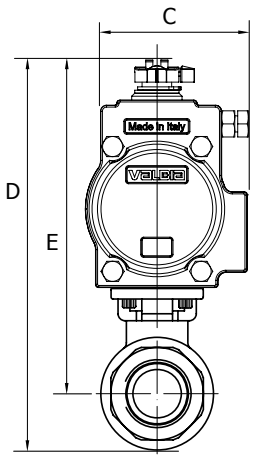



| N POS | PART NAME | MATERIAL | N PCS |
|---|---|---|---|
| 1 | BODY | CF8M | 1 |
| 2 | END CAP | CF8M | 1 |
| 3 | BALL | CF8M | 1 |
| 4 | ANTI-STATIC STEM | SS 316 | 1 |
| 5 | BALL SEAT | DELRIN | 2 |
| 6 | BODY SEAL | P.T.F.E. | 1 |
| 7 | THRUST WASHER | P.T.F.E. | 1 |
| 8 | STEM PACKING | P.T.F.E. | 1 |
| 8A | O-RING | VITON | 1 |

| N POS | PART NAME | MATERIAL | N PCS |
|---|---|---|---|
| 9 | THRUST WASHER | 50% SS - 50% P.T.F.E. | 1 |
| 10 | STEM NUT | SS 304 | 1 |
| 11 | LOCK SADDLE | SS 304 | 1 |
| 12 | HANDLE | SS 304 | 1 |
| 13 | STOP BOLT | SS 304 | 1 |
| 14 | STOP NUT | SS 304 | 1 |
| 15 | STOP WASHER | SS 304 | 1 |
| 16 | HANDLE BOLD | SS 304 | 1 |
| 17 | HANDLE SLEEVE | VINYL | 1 |

# DIMENSIONS




**8P3100** 3100 W/ **DOUBLE ACTING** ACTUATOR

| Size | A | B | C | D | E | ACT. DA |
|---|---|---|---|---|---|---|
| 1/4” | 5.55 | 2.95 | 2.80 | 5.61 | 6.11 | 52 |
| 3/8” | 5.55 | 2.95 | 2.80 | 5.61 | 6.11 | 52 |
| 1/2” | 5.55 | 2.95 | 2.80 | 5.61 | 6.11 | 52 |
| 3/4” | 5.55 | 3.19 | 2.80 | 5.72 | 6.59 | 52 |
| 1” | 6.46 | 3.58 | 3.17 | 6.56 | 7.56 | 63 |
| 1-1/4” | 8.27 | 4.33 | 3.72 | 7.48 | 8.58 | 75 |
| 1-1/2” | 8.27 | 4.76 | 3.72 | 8.12 | 9.39 | 75 |
| 2” | 8.27 | 5.71 | 3.72 | 8.12 | 9.77 | 75 |

**8P3100** 3100 W/ **SPRING RETURN** ACTUATOR

| Size | A | B | C | D | E | ACT. SR |
|---|---|---|---|---|---|---|
| 1/4” | 6.46 | 2.95 | 3.17 | 6.70 | 6.06 | 63 |
| 3/8” | 6.46 | 2.95 | 3.17 | 6.70 | 6.06 | 63 |
| 1/2” | 6.46 | 2.95 | 3.17 | 6.70 | 6.06 | 63 |
| 3/4” | 8.27 | 3.19 | 3.72 | 7.57 | 6.88 | 75 |
| 1” | 8.27 | 3.58 | 3.72 | 8.11 | 7.27 | 75 |
| 1-1/4” | 9.47 | 4.33 | 4.17 | 8.96 | 8.03 | 85 |
| 1-1/2” | 10.83 | 4.76 | 4.84 | 10.35 | 9.17 | 100 |
| 2” | 13.11 | 5.71 | 5.39 | 11.71 | 10.53 | 115 |



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