

Female NPT Thread, 1/4" to 1" 2000 CWP (psig), 1-1/4" to 2" 1500 CWP (psig). Cold Non-Shock.  
 150 psig Saturated Steam.  
 Vacuum Service to 29 inches Hg.  
 MSS SP-110 Compliant.

### FEATURES

- Spring return to close ("01" suffix)
- Spring return to open ("08" suffix)
- All components of lever are stainless steel
- Zinc phosphate corrosion protection
- Operating torque is approximately three times standard valve torque
- Blowout-proof stem design

- Adjustable packing gland
- Investment cast components
- Multifill seats
- Fire safe "by design" (requires -24 suffix)

### VARIATIONS AVAILABLE

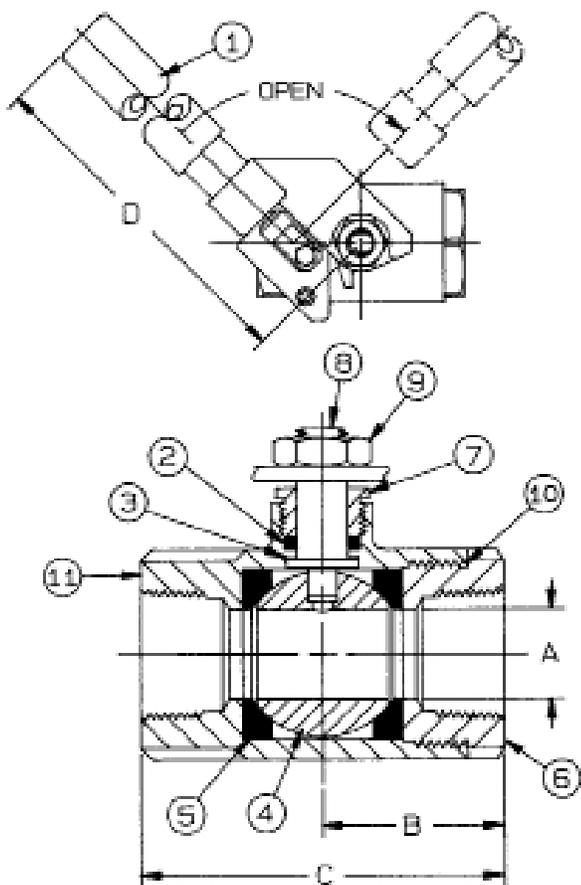
- 89-540 Series (316 SS Ball & Stem)

### OPTIONS AVAILABLE

(MORE INFORMATION IN SECTION J)

- Minimum quantities apply
- To specify an option, replace the "01" standard suffix with the suffix of the option.
- To specify multiple options, replace the "01" suffix with the desired suffixes in the numerical order shown below. NOTE: Not all suffixes can be combined together.

| (SUFFIX) | OPTION                                   | SIZES      |
|----------|--|------------|
| -01      | Standard Configuration                   | All        |
| -P -01-  | BSPP (Parallel) Thread Connection        | 1/4" to 2" |
| -T -01-  | BSPT (Tapered) Thread Connection         | 1/4" to 2" |
| -08-     | 90° Reversed Stem                        | 1/4" to 2" |
| -14-     | Side Vented Ball (Uni-Directional)       | 1/4" to 2" |
| -24-     | Graphite Packing (fire safe "by design") | 1/4" to 2" |
| -35-     | PTFE Trim                                | 1/4" to 2" |



### DIMENSIONS

| PART NO.   | SIZE   | A    | B    | C    | D    | WT.  |
|------------|--------|------|------|------|------|------|
| 89-501-01A | 1/4"   | 0.37 | 1.03 | 2.06 | 7.00 | 1.26 |
| 89-502-01A | 3/8"   | 0.37 | 1.03 | 2.06 | 7.00 | 1.25 |
| 89-503-01A | 1/2"   | 0.50 | 1.12 | 2.25 | 7.00 | 1.31 |
| 89-504-01A | 3/4"   | 0.68 | 1.50 | 3.00 | 7.00 | 1.98 |
| 89-505-01A | 1"     | 0.87 | 1.68 | 3.37 | 7.00 | 2.35 |
| 89-506-01  | 1-1/4" | 1.00 | 2.00 | 4.00 | 9.00 | 3.96 |
| 89-507-01  | 1-1/2" | 1.25 | 2.18 | 4.37 | 9.00 | 4.78 |
| 89-508-01  | 2"     | 1.50 | 2.75 | 5.50 | 9.00 | 6.66 |

Pressure/Temperature Ratings -  
 Page M-14, Graph No. 13 (1/4" to 1")  
 Page M-13 Graph No. 11 (1-1/4" to 2")

### STANDARD MATERIAL LIST

|    | PART         | MATERIAL  |
|----|--------------|---|
| 1  | Handle       | SS  |
| 2  | Stem packing | Multifill PTFE                                  |
| 3  | Stem bearing | RPTFE   |
| 4  | Ball         | A108-CS chrome plated                           |
| 5  | Seat (2)     | Multifill PTFE                                  |
| 6  | Retainer     | A108-CS (1/4" to 1")<br>A216-WCB (1-1/4" to 2") |
| 7  | Gland nut    | A108-CS   |
| 8  | Stem         | A276-316  |
| 9  | Lever nut    | Steel, Zinc Plated                              |
| 10 | Body seal    | PTFE (1-1/4" to 2")                             |
| 11 | Body         | A216-WCB  |