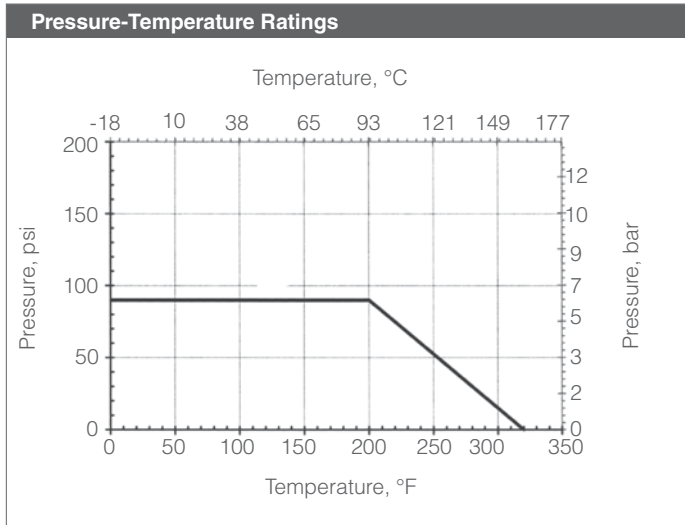



Features

- High integrity hot forged brass body
- Blow-out proof stem
- PTFE seats
- O-ring stem seals
- 100% tested
- Locking Lever Operator



Seat Tightness Note: If closed port pressure exceeds open port pressure, the ball may be forced slightly off the seat, which would allow mixing from all ports. Occurrence may vary depending upon flow and ambient conditions.

| Technical Specifications | | | | |
|--------------------------|-------------------------|--------|----------------------|--------|
| Valve Size | Operating Torque, in-lb | | Flow Coefficient, Cv | |
| Inches | 3T3100 | 3L3200 | 3T3100 | 3L3200 |
| 3" | 974 | 974 | 170 | 206 |

**3T-3100F-300-BR Series Multi-Port Valve
 3L-3200F-300-BR Series Multi-Port Valve**

| Quick Spec | |
|-----------------------|--|
| Product Scope | |
| Size Range | 3", Full Port, NPT Ends |
| Port Type | L-Port or T-Port |
| Port Orientation | Bottom Entry |
| Pressure Rating | 87 psi WOG (CWP) |
| Max Temperature / WSP | 344°F / 100 psi Steam 173°C / 6,9 bar Steam |
| Body | Brass, Hot Forged, Ni Plated |
| Ball & Stem | Brass, Chrome Plated |
| Ball Seats | PTFE |
| Stem Seals | Buna-N O-Ring |
| Stem Bearing | PTFE |
| Operator | Manual Lever, Non-Locking |
| Design Standards | |
| Threaded End Design | ANSI B1.20.1 |
| Testing Standards | |
| Pressure Testing | 100% @ 80 psi in open & closed position |

| Materials of Construction | |
|---------------------------|-------------------------------|
| Part | Material Specification |
| Body | *Brass CuZn40Pb2, Ni. Plated |
| End Cap | *Brass CuZn40Pb2, Ni. Plated |
| Ball | *Brass CuZn40Pb2, Chr. Plated |
| Stem | *Brass CuZn40Pb2, Chr. Plated |
| Gland | *Brass CuZn39Pb3, Ni. Plated |
| Seats | PTFE |
| Thrust Washer | PTFE |
| Packing | PTFE |
| FNPT Adapters | ASTM B-16 Temper H02 |
| Nut, Gland | Steel, Plated |
| Handle | Steel, Plated |
| Nut Handle | Steel, Plated |

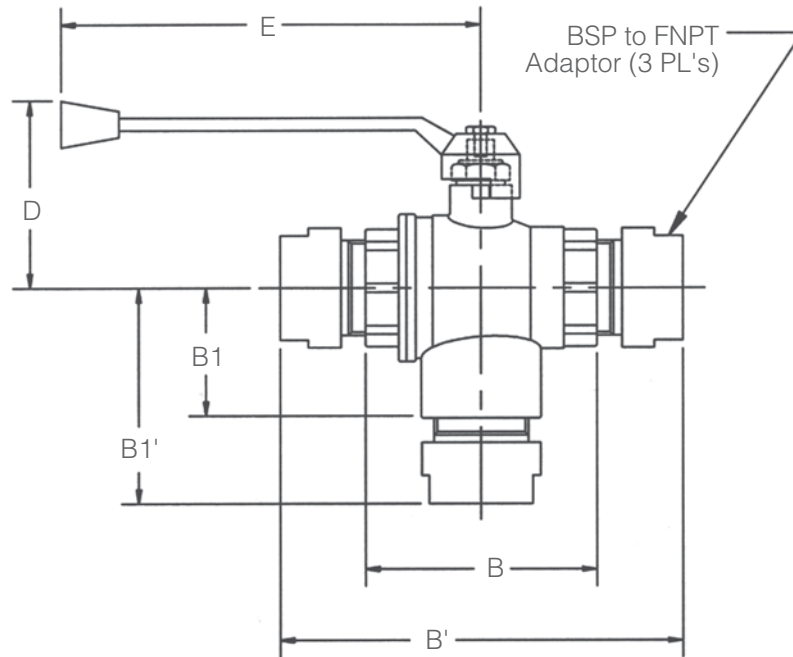
* UNI EN 12165 CW617N (58Cu-40Zn-2Pb) equivalent to Hot Forging Brass
 UN C37700 (60Cu-39Zn-2Pb)
 ** UNI EN 12164 CW614N (58Cu-39Zn-3Pb) equivalent to Architectural Brass
 bar UNS C38500 (57Cu-40Zn-3Pb)

| 3T3100 Series Port Arrangement | | | |
|--------------------------------|----|-----|------|
| Position Flow Pattern | A | B | C |
| BT | | | |
| | 0° | 90° | 180° |

| 3L3200 Series Port Arrangement | | | |
|--------------------------------|----|-----|------|
| Position Flow Pattern | A | B | C |
| BL | | | |
| | 0° | 90° | 180° |

For automation, specify 2-position or 3-position 180° actuators

| Technical Specifications, metric | | | | |
|----------------------------------|-----------------------|--------|----------------------|--------|
| Valve Size | Operating Torque, N-m | | Flow Coefficient, Kv | |
| NPS | 3T3100 | 3L3200 | 3T3100 | 3L3200 |
| DN80 | 110 | 110 | 146 | 178 |



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| Dimensions, Inches | | | | | | | | | |
|--------------------|----------------------|--------------|--------------------------|---------------|------------------------------|--------------|----------|----------------|-------------------|
| Valve Size | 3T3100/3L3200 Series | | | | | | | | |
| Inches | A Port | B Va. Length | B [*] Overall L | B1 Va C/L Bot | B1 ^{**} Overall Bot | D C/L Handle | E Handle | Wt (lbs) Valve | Wt' (lbs) Overall |
| 3 ^{**} | 3.15 | 7.76 | 12.77 | 4.17 | 6.68 | 6.0 | 10.2 | 19.9 | 31.9 |

| Dimensions, mm | | | | | | | | | |
|-------------------|----------------------|--------------|--------------------------|---------------|------------------------------|--------------|----------|----------------|-------------------|
| Valve Size | 3T3100/3L3200 Series | | | | | | | | |
| NPS | A Port | B Va. Length | B [*] Overall L | B1 Va C/L Bot | B1 ^{**} Overall Bot | D C/L Handle | E Handle | Wt (kgs) Valve | Wt' (kgs) Overall |
| DN80 [*] | 80,0 | 197,0 | 324,4 | 106,0 | 169,7 | 152 | 260 | 9,0 | 14,5 |

* 3" dimensions B', B1' and Wt' include DIN x NPT adaptors

** Valve does not have integral mounting 5211 pad – a clamp on pad is used for automation

| How to Order | | | | | | |
|--------------|------------------------------|------------------------|---------------------|-------------|------|------------|
| Body Port | Ball Port | Series | Design | Port Design | Size | Material |
| 3 | T = "T" Port L = "L" Port | 31 = 3100 32 = 3200 | 00 = Lever Operated | F = Full | 300 | BR = Brass |

Sample Ordering Schematic

| | | | | | | |
|---|---|----|----|---|-----|----|
| 3 | T | 31 | 00 | F | 300 | BR |
| 3 | L | 32 | 00 | F | 300 | BR |

Marwin Valve

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