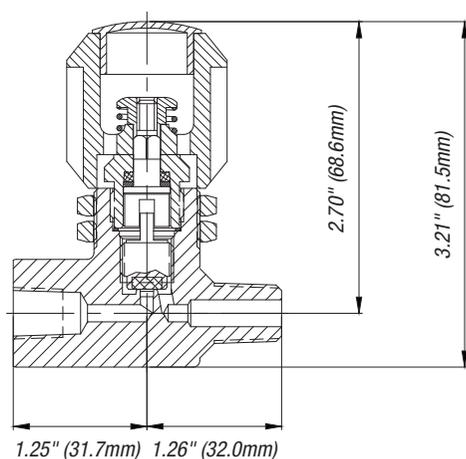


## YVA Series

### High-Pressure Line Valves



Designed for Compressed Gas Storage & Cascade Fill Systems meeting the demands of SCUBA & SCBA professionals internationally. The most state-of-the-art and efficient valve in the industry.

#### Key Features & Benefits

- Strong, durable forged brass body manufactured by Sherwood to specifications stricter than most commercial forging specifications
- Compact design especially suited for use on compressor or cascade panels
- Chamber specially designed for low-torque operation
- Aluminum Silicon Bronze stem design for dependable service and long life
- Proprietary dual packing chamber design provides dependable seal characteristics, long service life and easy operation
- Durable lower plug made of tough naval brass to resist wear
- Lower plug is PTFE coated to add lubricity, which minimizes seizing and galling especially under high-pressure operation
- Internal protected bonnet gasket seal provides positive, damage-resistant chamber seal
- Compact molded Lexan® polycarbonate handwheel is easy to use
- Safe, dependable and easily rebuilt and maintained

#### Design Specifications

|                                     | English                    | Metric          |
|-------------------------------------|----------------------------|-----------------|
| <b>Maximum Working Pressure</b>     | 6000 PSI                   | 414 Bar         |
| <b>Storage Temperature Range</b>    | -65° F → +155° F           | -54° C → +68° C |
| <b>Operating Temperature Range</b>  | -50° F → +120° F           | -45° C → +49° C |
| <b>Minimum Cycle Life</b>           | 5000 Cycles                | 5000 Cycles     |
| <b>Operating Torque</b>             | 10–15 in.-lbs.             | 1.1–2.2 N-m     |
| <b>Closing Torque</b>               | 10–15 in.-lbs.             | 1.1–2.2 N-m     |
| <b>Bonnet Installation Torque</b>   | 25–30 ft.-lbs.             | 2.8–3.4 N-m     |
| <b>Stem Nut Installation Torque</b> | Nut Flush with Top of Stem |                 |

## YVA Series

### High-Pressure Line Valves

| Materials of Construction     |  |
|-------------------------------|--|
| Part Description              | Materials of Construction                          |
| Body                          | Brass C37700 Chrome Plated                         |
| Bonnet                        | Brass, UNS ASTM-B-16-53 Chrome Plated              |
| Gasket                        | Copper   |
| Handwheel                     | Lexan®   |
| Handwheel Cap                 | Lexan  |
| Lower Plug                    | Aluminum Silicon Bronze C64200                     |
| Lower Plug Seat               | Nylon: Zytel 101 or Celanese 1000-11               |
| Packing (3506-18)             | Viton®   |
| Packing (3506-7)              | PTFE   |
| Panel Mount Nut (as required) | Brass C36000, Chrome Plated                        |
| Spring                        | Type 302 Stainless Steel, Passivated               |
| Stem                          | Aluminum Silicon Bronze Alloy #708-8 Nickel Plated |
| Stem Nut                      | Brass C36000                                       |

| Standards Conformance |  |
|-----------------------|--|
| CGA V-9               | Standard for Gas Cylinder Valves                                     |
| A-A-59860             | US General Services Administration Standards for Gas Cylinder Valves |

| Ordering Information |                   |                    |             |                 |               |
|----------------------|-------------------|--------------------|-------------|-----------------|---------------|
| Sherwood Part Number | Inlet Thread Size | Outlet Thread Size | Panel Mount | Panel Hole Size | Chrome Plated |
| YVA3010              | ¼"–18 NPT Int.    | ¼"–18 NPT Ext.     | No          | —               | Yes           |
| YVA3010A             | ¼"–18 NPT Int.    | ¼"–18 NPT Ext.     | Yes         | 1½"             | Yes           |