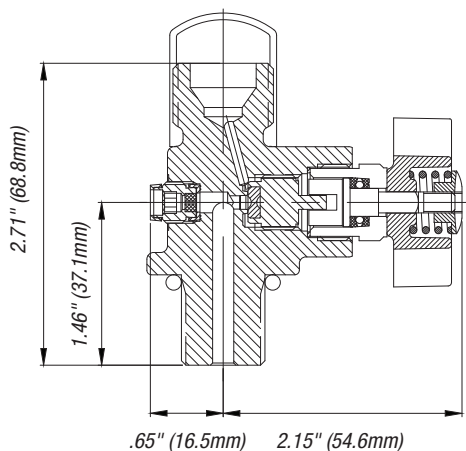


## YVBA Series

### Vertical Outlet Oxygen Valves



YVBA



YVBA5454-XX-75G

Compact and designed for home healthcare use on small medical aluminum and composite cylinders.

#### Key Features & Benefits

- Compact design
- Chamber designed for easy operation
- Aluminum Silicon Bronze stem design for dependable service and long life
- Durable lower plug made of tough naval brass resists wear
- Lower plug is PTFE coated to add lubricity, which minimizes seizing and galling especially under high-pressure operation
- Internal bonnet gasket seal resists damage to chamber sealing area
- Compact molded Lexan® polycarbonate handwheel is easy to operate
- Single unit, compact Pressure Relief Device incorporates 165° F fusible metal backing to resist premature rupture and provide maximum cylinder protection
- Chrome plated for corrosion resistance and cosmetic appeal
- Cleaned for oxygen service and oil free per CGA G-4.1

## YVBA Series

### Vertical Outlet Oxygen Valves

Design Specifications		
	English	Metric
Maximum Working Pressure	3000 PSI	207 Bar
Storage Temperature Range	-65° F → +155° F	-54° C → +68° C
Operating Temperature Range	-50° F → +120° F	-45° C → +49° C
Minimum Cycle Life	5000 Cycles	5000 Cycles
Operating Torque	3–5 in.-lbs.	.3–.6 N-m
Closing Torque	5–7 in.-lbs.	.6–.8 N-m
Bonnet Installation Torque	25–30 ft.-lbs.	33.9–7.3 N-m
Pressure Relief Device Installation Torque	50–65 in.-lbs.	5.6–7.3 N-m
Stem Nut Installation Torque	Nut Flush with Top of Stem	

Materials of Construction		
Sherwood Part Number	Part Description	Materials of Construction
N/A	Body	Brass C37700 Chrome Plated
1-3606-14	Bonnet	Brass, UNS ASTMB-16-53 Chrome Plated
3506-10	Gasket	Copper
1389-2D	Handwheel	Lexan®
	<b>Plug and Seat Assembly</b>	
3506-9	Plug	Aluminum Silicon Bronze C34200
	Seat	Nylon, Zytel 101 or Celanese 1000-11
3506-18	Packing	Viton
3506-7	Packing	PTFE
9-3011A-2	Panel Mount Nut (as required)	Brass C36000, Chrome Plated
19-3506-11	Spring	Type 302 Stainless Steel, Passivated
9-3506-12	Stem	Aluminum Silicon Bronze Alloy #708-8 Nickel Plated
1-3506-8	Stem Nut	Brass C36000

Standards Conformance	
CGA V-9	Standard for Gas Cylinder Valves
CGA S1.1	Standard for Pressure Relief Devices
CGA V-1	Compressed Gas Cylinder Valve Outlet and Inlet Specifications
A-A-59860	U.S. General Services Administration Standards for Gas Cylinder Valves

## YVBA Series

### Vertical Outlet Oxygen Valves

Inlet O-Ring for Straight Threaded YVB Valves		
Sherwood Part Number	Size	Material
G016B	.625 UNF	Buna-N
G016T		
G210A9	.750 UNF	Buna-N
G210T		PTFE
G210J	.750 UNF	Viton®

Ordering Information				
Sherwood Part Number	CGA Outlet	Outlet Thread Size	Inlet Thread Size	Gauge
YVBA5454-XX-62	540	.903-14 NGO RH Ext.	.625-18 UNF-2A	None
YVBA5454-XX-62G	540	.903-14 NGO RH Ext.	.625-18 UNF-2A	1/8" NPTF
YVBA5454-XX-75	540	.903-14 NGO RH Ext.	.750-16 UNF-2A	None
YVBA5454-XX-75G	540	.903-14 NGO RH Ext.	.750-16 UNF-2A	1/8" NPTF

All valves supplied with CG-4 165° F fusible metal backed, flush-style Pressure Relief Devices and nickel rupture discs.

XX denotes Pressure Relief Device burst disc rupture pressure.

Valves are available in -28 (3000 Max. PSI), -32 (3360 Max. PSI) and -48 (5000 Max. PSI).

#### Special features available:

- CG-1 Pressure Relief Devices without fusible metal
- Hex-style, exhaust-equalizing Pressure Relief Device plugs
- .750-16 UNF inlets with O-ring glands in conformance with military specifications
- Round, barrel-style Lexan® handwheel

Key Replacement Parts	
Sherwood Part Number	Description
19-3506-11	Spring
3506-9	Lower Plug
6521S	Handwheel