

Specialty Gas Valves

# 6411 Series

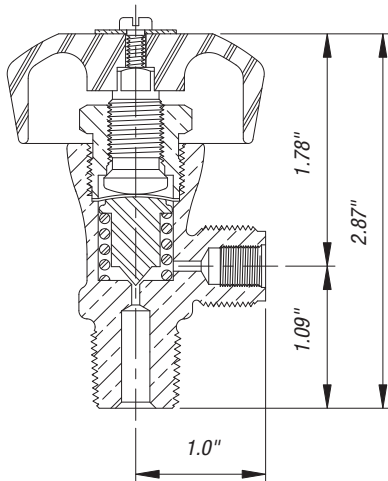
## Diaphragm Packless Lecture Bottle Valves



The 6411 Series is designed specifically with corrosive gases in mind and with a durable construction for the specialty gases and gas mixtures used in laboratories.

### Key Features & Benefits

- Proven leak-tight diaphragm seal
- Forged brass and aluminum silicon bronze bodies withstand severe service conditions
- Low operating torque design ensures ease of operation during filling and use
- Robust lower stem seal providing repeatable positive shutoff
- Available with standard CGA connections



### Ordering Information

Sherwood Part Number	Material	Inlets	Outlets	Metallic Seat Material
6411-170	Brass	3/8" NGT	CGA 170	303 Stainless Steel
6411-180	Brass	3/8" NGT	CGA 180	303 Stainless Steel
6411X3-180	Aluminum Silicon Bronze	3/8" NGT	CGA 180	303 Stainless Steel

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Design Specifications		
	English	Metric
Maximum Working Pressure	3000 PSI	207 Bar
Leak Rate	1x10 <sup>-7</sup> atm cc/s	1x10 <sup>-7</sup> Bar mL/sec
Operating Temperature	-50° F to +130° F	-45° C to +54° C
Operating Torque	ft.-lbs.	N-m
Closing Torque	4 ft.-lbs.	5.4 N-m
Cv Flow Factor	.25	.25
Cycle Life	2000 Minimum	2000 Minimum

Standards Conformance	
CGA V-9	Standards for Gas Cylinder Valves
CGA V-1	Compressed Gas Cylinder Valve Outlet
A-A-59860	US General Services Administration Standards for Gas Cylinder Valves

Materials of Construction	
Part Description	Materials of Construction
Upper Stem	Brass
Spring	Stainless Steel
Bonnet	Brass
Diaphragms	Stainless Steel
Lower seat	Stainless Steel
Body	Brass or Aluminum Silicon Bronze