



## GRANDVALVES™ – RPV Series

Protects cylinders and contents from back flow of contaminants

# RESIDUAL PRESSURE VALVES

Retains a small amount of filled gas (approximately 55-85 PSI) to ensure purity inside vessel. Valves are available in CGA-320 and CGA-580 models.

### KEY FEATURES

- Durable forged brass body with precisely machined internal components
- Unitized plug design provides excellent flow characteristics
- Dynamic front piston seal design avoids direct contact with flow passage during filling
- Various inlet and outlet thread configurations available
- 100% helium leak tested
- Meets stringent international valve performance standards

### BENEFITS

- Prevents back flow of contaminants and foreign substances
- Maintains integrity of contents, even if valve is left open
- Retains small amount of filled gas (approximately 55-85 PSI) to ensure purity inside vessel
- Eliminates expense of a time-consuming purge-and-clean cycle
- Protects and extends life of cylinder by preventing ingress of moisture

U.S. TOLL FREE **888-429-5832**

 [www.cyl-tec.com](http://www.cyl-tec.com)

### Design Specifications

	Standard	Metric
Maximum Working Pressure	3500 PSI	241 Bar
Operating Temperature Range	-50° F → +149° F	-45° C → +65° C
Storage Temperature Range	-65° F → +155° F	-54° C → +68° C
Leak Rate Internal/External	1x10 <sup>-3</sup> atm cc/sec.	1x10 <sup>-3</sup> Bar mL/sec.
Minimum Cycle Life	2000 Cycles	
Cv Flow Factor	.26	
Closing Torque	20-30 in.-lbs.	2.2-3.3 N-m
Operating Torque	10-20 in.-lbs.	1.1-2.2 N-m
Bonnet Installation Torque	50-60 ft.-lbs.	68-81 N-m
Handwheel Nut Installation Torque	15-35 in.-lbs.	1.7-3.9 N-m
PRD Installation Torque	25-35 ft.-lbs.	34-47 N-m
PRD Flow Capacity	60 cfm @ 100 PSI	1700 L/min. @ 6.9 Bar

### PIN ADAPTERS – RETRACTABLE & FIXED

Pin Adapters provide maximum operating flexibility to fill or evacuate a cylinder with either a conventional valve or an RPV.

The adapters incorporate an O-ring seal for a hand-tight connection.

1. Retractable Pin Adapter (for CGA-580 RPV)
2. Fixed Pin Adapter (for CGA-320 RPV)

