

Chlorine Gas Valves

Robust and Basic Valves

Design Specifications			
	English		Metric
Maximum Working Pressure	500 PSI		34 BAR
Burst Pressure	7200 PSI		496 BAR
Operating Temperature Range	-50° F → +149° F		-45° C → +65° C
Storage Temperature Range	-60° F → +149° F		-51° C → +65° C
Leak Rate Internal/External	1 × 10 ⁻⁶ atm cc/s		1 × 10 ⁻⁶ mL/sec
Operating Torque	5–6 ft.-lbs.		6.8–8.1 N-m
Closing Torque	25 ft.-lbs.		33.9 N-m
Packing Nut Installation Torque	25–35 ft.-lbs.		33.9–47.4 N-m
Stem Installation Torque	10–12 ft.-lbs.		13.5 – 16.3 N-m
Fusible Plug Installation Torque	12–15 ft.-lbs.		16.3–20.3 N-m
Yoke Torque	Not to exceed 35 ft.-lbs.		Not to exceed 47.4 N-m
Minimum Cycle Life	2000 Cycles		2000 Cycles
Cv Flow Factor	1210A	.733	1210A .733
	1214A	1.88	1214A 1.88

Materials of Construction	
Part Description	Materials of Construction
Body	Aluminum Silicon Bronze C64210
Stem	Monel® ASTM B164-84 Type UNS N04400 or N04405
Packing Nut	Brass C36000
Packing Collar	Naval Brass C48500
Packing Gland	Brass C36000
Packing	PTFE or Garlock® 6130
Outlet Cap	Brass C36000
Outlet Cap Gasket	PTFE
Fusible Plug PRD	Naval Brass C48500 (with 165° F fusible metal)

Standards Conformance	
CGA V-9	Standard for Gas Cylinder Valves
CGA S-1.1	Standard for Pressure Relief Devices
CGA V-1	Compressed Gas Cylinder Valve Outlet and Inlet Connections Standards
Chlorine Institute Pamphlet 17	Cylinder and Ton Container Procedure for Chlorine Packaging and Valve Design Criteria
ISO 10297	International Standard for Cylinder Valves Design Specification
TPED/ADR	Transportable Pressure Equipment Directives

Parts Breakdown for Chlorine Gas Valves

- A. Packing Nut **P1210-3 (Basic) or P1210A-3 (Robust)**
- B. Packing Gland **P1210-4**
- C. Packing (2 required) **P1210-6 (Garlock 6130) or P1210-6T (PTFE)**
- D. Packing Washer **P1210-5N**
- E. Stem **P1210-2M**
- F. Outlet Cap Assembly **P1210-11**
Outlet Cap Only **P1210-14**
Outlet Cap Gasket **P10-G-T**
- G. Fusible Plug **5853T Series (Cylinder Valve) 1333 or 1303 Series (Ton Container Valves)**

See Parts & Accessories, page 7–8, for more information

