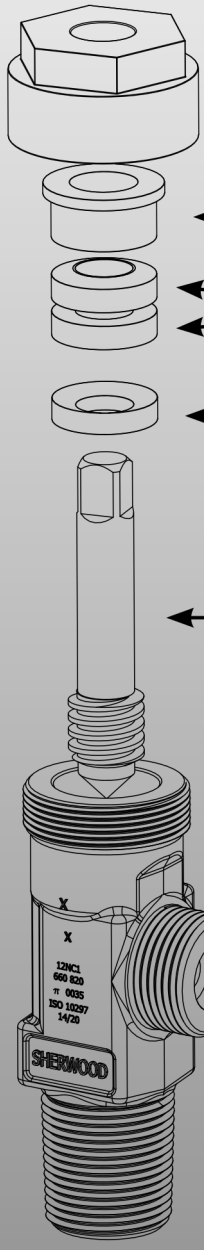
Chlorine Gas Valves

Robust & Basic Valves



packing nut

packing gland

packing (2 required)

packing washer

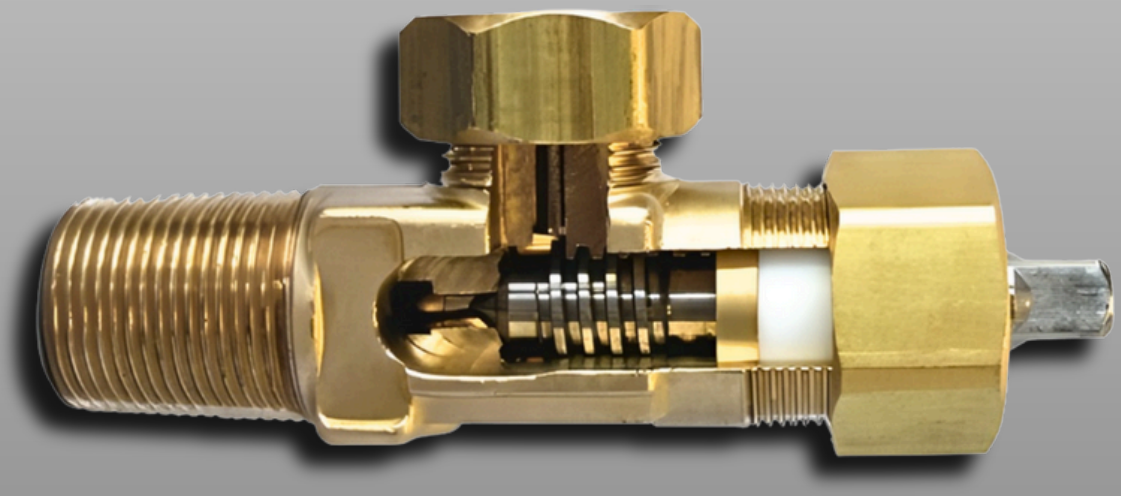
stem

outlet cap assembly (cap, gasket)

fusible plug

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)



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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 Leak	-60° F → +149° F	-51° C → +65° C
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 1214A 1.88	1210A .733 1214A 1.88

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Materials of Construction

Part Description	Materials of Construction
Body Stem	Aluminum Silicon Bronze C64210
Packing Nut	Monel® ASTM B164-84 Type UNS NO4400 or NO4405
Packing Collar	Brass C36000
Packing Gland	Naval Brass C48500
Packing Outlet	Brass C36000
Cap Outlet	PTFE or Garlock® 6130
Cap Gasket	Brass C36000
Fusible Plug	PTFE
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