

Chlorine Gas Valves

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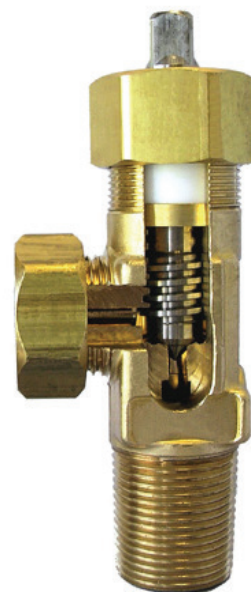
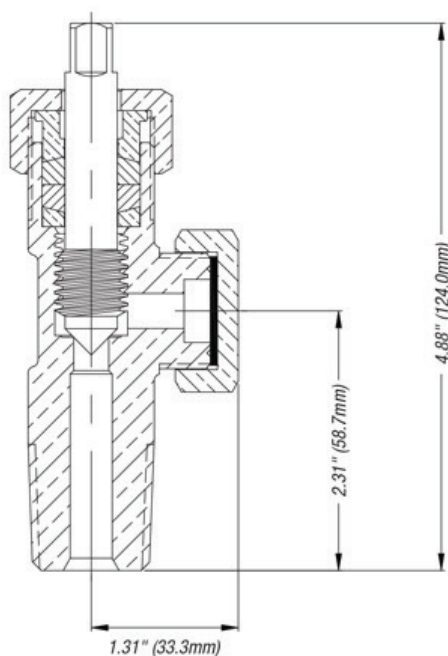
1210 & 1214 Series



1214X1-B1

Key Features & Benefits

- Manufactured in conformance to Chlorine Institute Pamphlet 17
- One-piece Monel® stem offers exceptional durability and positive shut-off in chlorine and other corrosive gas service
- Choice of PTFE (shown here) or Garlock® 6130 packing for easy operation and durable leak-resistant stem seal
- Large wrench flats on valve body for easy installation
- Aluminum Silicon Bronze (C64210) valve body offers corrosion resistance
- Available in oversize thread combinations to lengthen cylinder and ton container life in service
- Cylinder valve equipped with CG-2 (165° F) fusible plug pressure relief device to protect cylinder in the event of high heat exposure



For Product Markings Reference, see **E** in the Appendix

Chlorine Gas Valves

1210A & 1214A Series

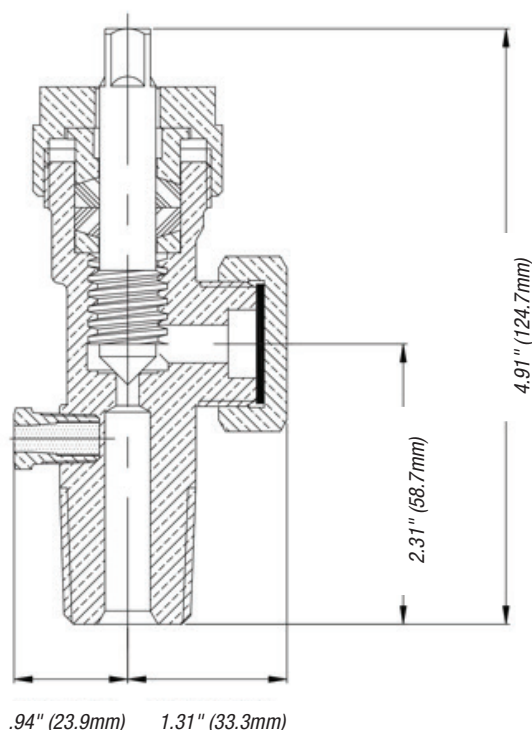


1214AX1-CL1

The Sherwood Exclusive Robust Valve features a heavy-duty body and packing nut for increased load carrying capacity and resistance against stress corrosion and cracking.

Key Features & Benefits

- Approved per the Chlorine Institute Pamphlet 17 Alternate Design Criteria
- Design retains same outlet, inlets, pressure relief device, packing ring, packings, follower, outlet cap, wrenches, yoke and materials as the basic valve
- One-piece Monel® stem offers exceptional durability and positive shut-off in chlorine and other corrosive gas service
- Choice of PTFE (shown here) or Garlock® 6130 packing for easy operation and durable leak-resistant stem seal
- Large wrench flats on valve body for easy installation
- Robust Aluminum Silicon Bronze (C64210) valve body offers corrosion resistance
- Available in oversize thread combinations to lengthen cylinder and ton container life in service
- Cylinder valve equipped with CG-2 (165° F) fusible plug pressure relief device to protect cylinder in the event of high heat exposure



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Chlorine Cylinder & Ton Container Valve

Design Specifications		
	English	Metric
Maximum Working Pressure	500 PSI	34 BAR
Burst Pressure	7200 PSI	496 BAR
Operating Temperature Range	-50° F to +149° F	-45° C to +65° C
Storage Temperature Range	-60° F to +149° F	-51° C to +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

For maintenance of valves, see *Repair Instructions for all Chlorine Gas Valves in Appendix.*

Parts List	
Part Description	Item Number
A, Packing NuteBody	P1210-3 (Basic Valve) P1210A-3 (Robust Valve)
B Packing Gland	P1210-4
C. Packing (2 required)	P1210-6 (Garlock 6130) 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 PRD	5853T

Chlorine Gas Valves

Chlorine Cylinder Valves

Ordering Information — 1210A Series

Sherwood Part Number	Inlet Thread Size*	CGA Outlet**	Pressure Relief Device	Packing
1210AX1-CL1	¾" NGT (CL)-1	660/820	CG-2 165° F Fuse-Metal	PTFE
1210A-CL1	¾" NGT (CL)-1	660/820	CG-2 165° F Fuse-Metal	Garlock® 6130
1210AX1-CL2	¾" NGT (CL)-2	660/820	CG-2 165° F Fuse-Metal	PTFE
1210A-CL2	¾" NGT (CL)-2	660/820	CG-2 165° F Fuse-Metal	Garlock 6130
1210AX1-CL3	¾" NGT (CL)-3	660/820	CG-2 165° F Fuse-Metal	PTFE
1210A-CL3	¾" NGT (CL)-3	660/820	CG-2 165° F Fuse-Metal	Garlock 6130
1210AX1-CL4	¾" NGT (CL)-4	660/820	CG-2 165° F Fuse-Metal	PTFE
1210A-CL4	¾" NGT (CL)-4	660/820	CG-2 165° F Fuse-Metal	Garlock 6130

Ordering Information — 1210 & 1211 Series

Sherwood Part Number	Inlet Thread Size*	CGA Outlet**	Pressure Relief Device	Packing
1210X1-B1	¾" NGT (CL)-1	660/820	CG-2 165° F Fuse-Metal	PTFE
1210-B1	¾" NGT (CL)-1	660/820	CG-2 165° F Fuse-Metal	Garlock 6130
1210X1-B2	¾" NGT (CL)-2	660/820	CG-2 165° F Fuse-Metal	PTFE
1210-B2	¾" NGT (CL)-2	660/820	CG-2 165° F Fuse-Metal	Garlock 6130
1210X1-B3	¾" NGT (CL)-3	660/820	CG-2 165° F Fuse-Metal	PTFE
1210-B3	¾" NGT (CL)-3	660/820	CG-2 165° F Fuse-Metal	Garlock 6130
1210X1-B4	¾" NGT (CL)-4	660/820	CG-2 165° F Fuse-Metal	PTFE
1210-B4	¾" NGT (CL)-4	660/820	CG-2 165° F Fuse-Metal	Garlock 6130
1211X1-B1	1" NGT (CL)-1	660/820	CG-2 165° F Fuse-Metal	PTFE
1211-B1	1" NGT (CL)-1	660/820	CG-2 165° F Fuse-Metal	Garlock 6130
1211X1-B2	1" NGT (CL)-2	660/820	CG-2 165° F Fuse-Metal	PTFE
1211-B2	1" NGT (CL)-2	660/820	CG-2 165° F Fuse-Metal	Garlock 6130

Ordering Information — Tested Valve Bodies

Sherwood Part Number	Inlet Thread Size*	Outlet**	Pressure Relief Device
P1210-30-B1T	¾" NGT (CL)-1	660/820	CG-2 165° F Fuse-Metal
P1210-30-B2T	¾" NGT (CL)-2	660/820	CG-2 165° F Fuse-Metal
P1210-30-B3T	¾" NGT (CL)-3	660/820	CG-2 165° F Fuse-Metal
P1210-30-B4T	¾" NGT (CL)-4	660/820	CG-2 165° F Fuse-Metal
P1211-30-B1T	1" NGT (CL)-1	660/820	CG-2 165° F Fuse-Metal
P1211-30-B2T	1" NGT (CL)-2	660/820	CG-2 165° F Fuse-Metal

*Inlet Thread Size Note:

(CL)-1 = 1st Thread Standard

(CL)-2 = 1st Thread 4 Threads Oversized

(CL)-3 = 1st Thread 8½ Threads Oversized

(CL)-4 = 1st Thread 14 Threads Oversized

**Outlet Connection Note: The same chlorine valve can be used with a CGA 660 connector nut connection or with a CGA 820 yoke connection.



Chlorine Gas Valves

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Chlorine Ton Container Valves

Ordering Information — 1214A Series

Sherwood Part Number	Inlet Thread Size*	Outlet**	Pressure Relief Device	Packing
1214AX1-CL1	¾" NGT (CL)-1	660/820	None	PTFE
1214A-CL1	¾" NGT (CL)-1	660/820	None	Garlock® 6130
1214AX1-CL2	¾" NGT (CL)-2	660/820	None	PTFE
1214A-CL2	¾" NGT (CL)-2	660/820	None	Garlock 6130
1214AX1-CL3	¾" NGT (CL)-3	660/820	None	PTFE
1214A-CL3	¾" NGT (CL)-3	660/820	None	Garlock 6130
1214AX1-CL4	¾" NGT (CL)-4	660/820	None	PTFE
1214A-CL4	¾" NGT (CL)-4	660/820	None	Garlock 6130

Ordering Information — 1214 & 1209 Series

Sherwood Part Number	Inlet Thread Size*	Outlet**	Pressure Relief Device	Packing
1214X1-B1	¾" NGT (CL)-1	660/820	None	PTFE
1214-B1	¾" NGT (CL)-1	660/820	None	Garlock 6130
1214X1-B2	¾" NGT (CL)-2	660/820	None	PTFE
1214-B2	¾" NGT (CL)-2	660/820	None	Garlock 6130
1214X1-B3	¾" NGT (CL)-3	660/820	None	PTFE
1214-B3	¾" NGT (CL)-3	660/820	None	Garlock 6130
1214X1-B4	¾" NGT (CL)-4	660/820	None	PTFE
1214-B4	¾" NGT (CL)-4	660/820	None	Garlock 6130
1209X1-B1	1" NGT (CL)-1	660/820	None	PTFE
1209-B1	1" NGT (CL)-1	660/820	None	Garlock 6130
1209X1-B2	1" NGT (CL)-2	660/820	None	PTFE
1209-B2	1" NGT (CL)-2	660/820	None	Garlock 6130
1209X1-B3	1" NGT (CL)-3	660/820	None	PTFE
1209-B3	1" NGT (CL)-3	680-820	None	Garlock 6130

Ordering Information — Tested Valve Bodies

Sherwood Part Number	Inlet Thread Size*	Outlet**	Pressure Relief Device
P1214-1-B1T	¾" NGT (CL)-1	660/820	None
P1214-1-B2T	¾" NGT (CL)-2	660/820	None
P1214-1-B3T	¾" NGT (CL)-3	660/820	None
P1214-1-B4T	¾" NGT (CL)-4	660/820	None
P1209-1-B1T	1" NGT (CL)-1	660/820	None
P1209-1-B2T	1" NGT (CL)-2	660/820	None

*Inlet Thread Size Note:

(CL)-1 = 1st Thread Standard

(CL)-2 = 1st Thread 4 Threads Oversized

(CL)-3 = 1st Thread 8½ Threads Oversized

(CL)-4 = 1st Thread 14 Threads Oversized

**Outlet Connection Note: The same chlorine valve can be used with a CGA 660 connector nut connection or with a CGA 820 yoke connection.



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