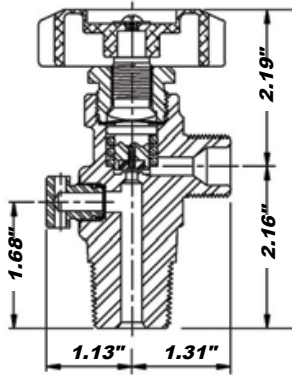# 6674 Series
316L SS Diaphragm Valves

Sherwood's 6674 Series is used in corrosive gas applications, cylinder phosphine gas, atmospheric and purging gases, dopant gases and reactant gases.

- Crimped seat feature with anti-extrusion pin prevents seat extrusion and cold flow of the polymeric seat
- Available in multiple seat material configurations to accommodate all high-purity gas applications
- Increased flow (Cv) to aid in reducing vent and purge times
- Low operating torque design ensures ease of operation during filling and use
- Available with unitized pressure-relief device having fuse-metal backed or unbacked burst disc
- Available with standard CGA connections as well as international inlets and outlets

6674 X (CGA) X X X - C

X =	Material	PSIG	Temperature	Additional Options
E = Electropolish	**N** = Nickel Burst Disc	**A** = 3000 PSIG	**M** = 165° Fuse Metal	**C** = Add to Part Number for Cap and Chain
G = 25E	**P** = Platinum Burst Disc	**B** = 3360 PSIG	**W** = 212° Fuse Metal	
K = Kynar (PVDF Seat)	**S** = Stainless Burst Disc	**C** = 3775 PSIG		
R = Tapped for Flow Restrictor		**D** = 4000 PSIG		
T = Tapped for Inlet Dip Tube				
V = Vespel Seat				
X15 = 1⅛"-12 UNF				

316L SS Diaphragm Valves

Valve Series	Inlets	Outlets	Seat Material
6674 Series	¾"-14 NGT	CGA	PCTFE PVDF
6674 International Series	ISO, BS 341, DIN 477; All Others Available upon Request	ISO, BS 341, DIN 477, JIS	PCTFE PVDF

Optional Features

Add an R or T to part number for options.
For example, a 6674-330 with a tapped inlet would be 6674T-330.

R = Outlet Tapped for 5⁄16" Flow Restrictor

T = Inlet Tap Available in ¼" NPT, 10 mm

Electropolish for Gas Wetted Areas

Pressure-Relief Device

Burst Pressure @ 165° F	A – 3000 PSIG B – 3360 PSIG C – 3775 PSIG D – 4000 PSIG
Burst Disc Material	Stainless Steel – Standard Nickel 200 – Optional Platinum-Clad Nickel – Optional None, Where Prohibited
Type (per CGA S-1.1 latest edition)	CG-4 Burst Disc w/ 165° F Fuse Metal CG-5 Burst Disc w/ 212° F Fuse Metal

Specifications

Max. Service Pressure	2400 PSIG	165 Bar
Temperature Range	-50° F → 130° F	-45° C → 54° C
Leak Rate @ 2000 PSIG (138 Bar)	1x10⁻⁷ atm cc/sec.	1x10⁻⁷ Bar mL/sec.
Closing Torque	50 in.-lbs. @ 2000 PSIG	5.6 N-m @ 138 Bar
Cv with and without Restrictor	.326/.635	.326/.635