Cryogenic Globe Valves

1/2" - 2" BOLTED BONNET WITH CRYOGENIC EXTENSION

Dixon Eagle® brand bellows sealed globe valves for cryogenic applications.

Applications

- · Cryogenic piping systems
- · High purity industrial gas tanks
- · ISO containers
- · Transportation trailers
- · Typical fluids:
 - LNG
 - Hydrogen
 - Argon
 - Oxygen
 - Nitrogen

Sizes

• 1/2" to 2"

Features

- Field repairable / repair kits available
- · Butt weld pipe or tube ends
- · Options:
 - Soft seat: PCTFE or PTFE
 - Purge ports
 - Graphite packing / gaskets
 - Electropolished interior
 - Air actuation

Materials

- · Body: 316L stainless steel from bar stock
- Bonnet: F316L stainless steel
- · Body seat: 316L stainless steel
- Bellows: Inconel® rated for 10,000 cycles
- · Packing: PTFE
- · Bonnet Gasket: PTFE/316 stainless steel

Specifications

- Operating temperature: -452°F to 300°F (-269°C to 149°C)
- · Operating pressure: Per ASME B16.34 CL800
- Testing:
 - External leakage / structural integrity
 Hydro to API 598 CL800
 Helium mass spectrometer to 1x10⁻⁷scc He/sec
 - Seat Leakage

Hydro to API 598 CL800

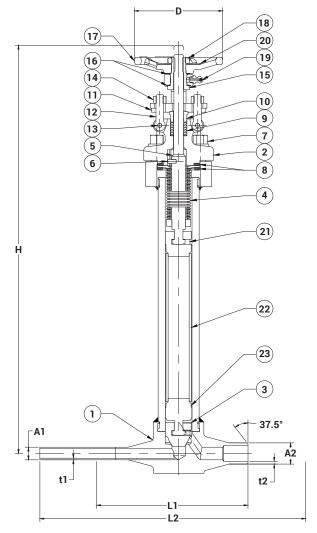
Bubble tight to 600 PSIG nitrogen





Bill of Materials

Item #	Description	Material				
1	body assembly	316 stainless steel				
2	bonnet	F316L stainless steel				
3	disc	316 stainless steel				
4	bellows	Inconel®				
5	stem	316 stainless steel				
6	pin	316 stainless steel				
7	bonnet bolts	A193 B8				
8	bonnet gaskets	PTFE/316 stainless steel				
9	packing	PTFE				
10	gland bushing	304 stainless steel				
11	gland plate	316 stainless steel				
12	gland bolts	304 stainless steel				
13	pins	304 stainless steel				
14	gland nuts	304 stainless steel				
15	yoke sleeve	Copper alloy				
16	thrust collars	410 stainless steel				
17	handwheel	Malleable iron				
18	handwheel nut	304 stainless steel				
19	grease fitting	Commercial				
20	nameplate	Aluminum				
21	upper disc adapter	316 stainless steel				
22	stem tube	316 stainless steel				
23	lower disc adapter	316 stainless steel				



Tube Ends/ Buttweld Globe Valves Dimensions

Size	A1	A2	t1	t2	L1	L2	Н	D	LIFT
1/2"	0.50	0.84	0.06	0.11	5.50	11.00	16.3	3.94	0.26
3/4"	0.75	1.05	0.06	0.11	6.25	12.75	16.3	3.94	0.26
1"	1.00	1.32	0.06	0.13	7.00	13.50	17.0	4.92	0.26
1-1/2"	1.50	1.90	0.06	0.15	8.75	15.25	20.0	6.30	0.43
2"	2.00	2.38	0.06	0.15	9.75	16.25	20.8	7.09	0.49

Dixon Eagle valves are designed to work safely for their intended use. Failure to know and understand the intended use or to consider the size, temperature, application, media, pressure, and manufacturers recommendations when selecting the proper valve assembly components can result in accidents and injuries, including death and serious and permanent injuries. Dixon® recommends that all valve assemblies be tested in accordance with ASME and API recommendations and be inspected regularly to ensure that their use remains appropriate and that they are not damaged.

At no charge, Dixon is available to consult, train, and recommend the proper selection and application of all valves we sell. We strongly recommend that distributors and end users make use of Dixon's Testing and Recommendation Services. Contact Dixon® to learn more.