Chlorine Globe Valves

1/2" - 2" BOLTED BONNET

Dixon Eagle® Brand Bellows Sealed Globe Valves For Severe Services

Applications

- · Severe service piping systems
- · Typical fluids:
 - Chlorine (CL2)
 - Phosgene (COCL2)
 - Anhydrous HCL (A-HCL)
 - Vinyl Chloride Monomer (VCM)
 - Anhydrous Hydrogen Fluoride (A-HF)
 - Hydrogen Cyanide (HCN)
 - Isocyanates (MDI, TDI, HDI)

Sizes

• 1/2" to 2"

Features

- · No welds directly separating process fluid from atmosphere
- · Back seated, will not trap process fluid
- · Roller bearing on yoke sleeve for smooth operation
- · Locking mechanism standard
- · Live loaded packing
- Options
 - Trim modifications
 - Graphite packing / gaskets
 - Purge ports
 - Air actuation

Materials

- Body: ASTM A352 LCC
- · Bonnet: ASTM A352 LCC
- Body Seat: Stellite 21
- Bellows: Triple ply Hastelloy® C-276 rated for 10,000 cycles
- Packing: PTFE
- Bonnet Gasket: PTFE/Hastelloy C-276

Specifications

- Operating temperature: -40°F to 248°F (-40°C to 120°C)
- Operating pressure: per ASME B16.34 CL300
- Design standards:
 - ASME B16.34
 - Chlorine Institute Pamphlet 6 Service Class V
- · Testing:
 - External leakage / structural integrity
 Hydro per API 598 CL300
 Nitrogen per API 598 CL300
 - Seat leakage

Hydro to API 598 CL300

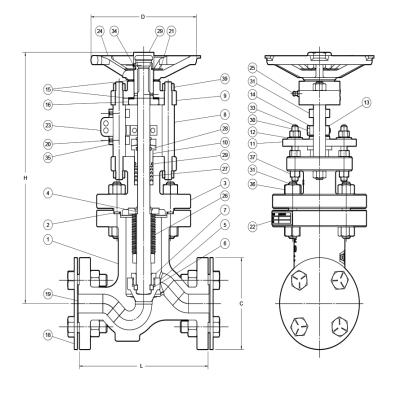
Bubble tight to 900 PSIG nitrogen





Bill of Materials

ltem	Description	Material		
1	Body	ASTM A352 LCC / Stellite #21		
2	Gasket	Alloy C-276 / PTFE		
3	Bonnet	ASTM A352 LCC		
4	Stem	Alloy C-276		
5	Disc	Alloy C-276/ Stellite #21		
6	split Ring	Alloy C-276		
7	Disc Nut	Alloy C-276		
8	Pillar	ASTM A276 Type 410		
9	Yoke/Bridge	ASTM A352 LCC		
10	Gland Follower	Alloy 20		
11	Gland Flange	Carbon steel		
12	Belleville Washer	Alloy 718		
13	Position Indicator A	Carbon steel		
14	Position Indicator B	Carbon steel		
15	Needle Bearing	Alloy steel		
16	Yoke Sleeve	Alloy 20		
17	Handwheel Nut	304 stainless steel		
18	Blank Cap	Carbon steel		
19	Cap Gasket	Compressed fiber		
20	Indicator Ring	Carbon steel		
21	Nameplate	304 stainless steel		
22	Identification Plate	304 stainless steel		
23	Lock Out Plate	Carbon steel		
24	Handwheel	Malleable cast iron		
25	Grease Fitting	Copper alloy		
26	Bellows Assembly	Alloy C-276		
27	Packing Set	PTFE		
28	O-Ring	FKM		
29	0-Ring	FKM		
30	Stud Bolt	ASTM A320 L7		
31	Stud Bolt	ASTM A320 L7		
32	Hex Head Screw	SAE J429 Grade 5		
33	Hex Head Screw	Carbon steel		
34	Set Screw	ASTM F912		
35	Set Screw	ASTM F912		
36	Heavy Hex Nut	ASTM A1947L		
37	Hex Nut	ASTM A1947L		
38	Hex Nut	SAE J995 Grade 8		
39	Hex Nut	ASTM A194 7L		



Class 300 Raised Face Globe Valve Dimensions

Size	С	D	Н	L	LIFT	CV
1/2"	3.75	4.40	10.80	6.00	0.26	6.8
3/4"	4.63	4.40	10.90	7.00	0.26	9.5
1	4.88	6.50	13.30	8.00	0.38	16.0
1-1/2"	6.13	6.50	14.0	9.00	0.43	29.0
2	6.50	7.20	14.4	10.50	0.49	56.5

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.

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