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



The Right Connection®

Chlorine Globe Valve

Dixon

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			Bil
Item	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	O-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 A194 7L	_
37	Hex Nut	ASTM A194 7L	_
38	Hex Nut	SAE J995 Grade 8	_
39	Hex Nut	ASTM A194 7L	

Bill of Materials



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.