Figure 980-D, 980-U Single Body

Slow Closing Combination Air Valves for Clean Water



Description

GA Industries Figure 980-D/980-U are a Figure 960-D/960-U Combination Air Valve and a "surge check," valve factory assembled and tested as a unit. This valve system vents air during filling, admits air during draining and releases residual air during operation. Plus, the surge check's adjustable regulated exhaust feature minimizes surges and protects the air valve from damage by controlling the rate at which air is vented as the system re-pressurizes subsequent to a column separation.

GA Industries Figure 983-D/983-U Slow Closing Combination Air Valves are typically installed at system high points where air naturally rises and column separation is likely to occur subsequent to pump shutdown.

Product Features

- · Full port orifice for maximum air outflow and inflow
- · Utilizes "kinetic" operating principle, designed not to blow
- · Surge check reduces air venting rate to minimize surge and protect air valve
- · Rugged cast iron body and cover
- Corrosion resistant Type 316 stainless steel float
- · Tight sealing and easily replaceable rubber seats

Air Valve Standard Materials

 Body & Cover Cast Iron, ASTM A126 Class B Stainless Steel, Type 316 Float

Replaceable Seat Buna-N

· External Fasteners Steel, A307, Zinc Plated

Surge Check Standard Materials

 Body Cast Iron, ASTM A126 Class B Trim Type 316 Stainless Steel

Corrosion Protection

 Standard: Uncoated internal, external enamel

primer, 2 mil DFT

See Option P2 Optional

Non-Shock Working Water Pressure at up to 150F (66C)					
Inlet Size	6" to 12"		6" to 12"		
Figure Number	980-DC	980-DJ	980-UC	980-UJ	
Inlet Connection	ANSI Class 125		ANSI Class 250		
Outlet Size	Same as Inlet		Same as Inlet		
Outlet	Cowl	CL125 Flange	Cowl	CL125 Flange	
Air Release Orifice Diameter	0.188"		0.125"		
Working Pressure	10 – 150 PSI		10 – 300 PSI		
Pressure Rating	150 PSI		300 PSI		
Hydro Test	225 PSI		450 PSI		

Data Sheet 980.01B



Approvals & Certifications

- Complies with AWWA Standard C512
- · NSF-61 Certified for Contact with Drinking Water
- NSF-372 Certified Lead Free

Options/Accessories

 Option IV Inlet Isolating Valve 6" lever

> operated, 8" and 10" worm gear operated AWWA Class 125 butterfly

valve

Flanged Outlet - ANSI Class 125 Option FO

flanged outlet connection

• Option P2 316 Stainless Steel external fasteners

and internal/external Carboline 891

NSF-61 certified 2-part epoxy, 6 mil DFT

Ordering Data

Figure Number (980-DC, 980-UJ, 980H-UC, 980H-UJ)

Size

· Options/Accessories



980-D, 980-U Single Body

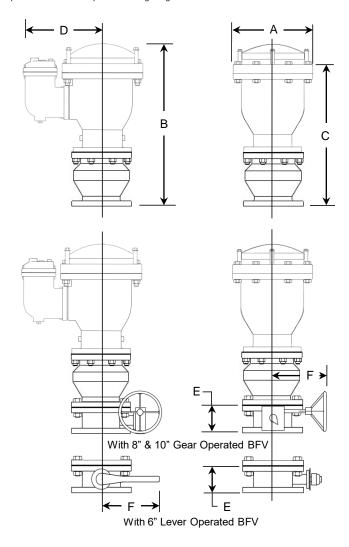
Slow Closing Combination Air Valves for Clean Water

Data Sheet 980.01B

Air Vacuum Orifice

Pressure at Valve Inlet	Air Outflow Rate, Standard Cubic Feet, (SCFM)			
During Filling	6"	8"	10"	12"
1 PSI	2830	5030	7850	11300
2 PSI	4000	7110	11100	16000
3 PSI	4900	8710	13600	19600
4 PSI	5660	10100	15700	22600
5 PSI	6320	11200	17600	25300
7 PSI	7480	13300	20800	29900
10 PSI	8940	15900	24800	35800
15 PSI	11000	19500	30400	43800

Value is rate at which air is vented from pipeline/system during filling at valve inlet pressures shown. Inlet pressure during filling should not exceed 5 PSI.



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Air Vacuum Orifice

Pressure at Valve Inlet	Air Inflow Rate, Standard Cubic Feet/Min (SCFM)			
During Draining	6"	8"	10"	12"
-1 PSIG	2880	5130	8010	11600
-2 PSIG	4080	7250	11300	16400
-3 PSIG	5000	8880	13900	20000
-4 PSIG	5770	10300	16000	23100
-5 PSIG	6430	11500	17900	25900

Value is rate at which air is drawn into the valve at negative pipeline/system pressure shown. Multiply SCFM air inflow rate x 7.48 to convert to equivalent pipeline/system liquid draining rate in USGPM.

Air Release Orifice

Pressure At Valve	Air Release Orifice Venting Rate, Standard Cubic Feet/Min (SCFM)			
Inlet	Figure 980-D	Figure 980U-H		
10 PSI	3.9	2.2		
15 PSI	4.7	2.6		
25 PSI	6.3	3.5		
50 PSI	10.3	5.8		
75 PSI	14.2	8.0		
100 PSI	18.2	10.2		
150 PSI	26.1	14.7		
200 PSI		19.1		
250 PSI		23.6		
300 PSI		28.0		

Installation Dimensions

SI	ZE	6"	8"	10"	12"
A (Dia	ameter)	15¼	19	23½	27½
	В	30%	37⅓	485/8	54¼
	C d Outlet)	27%	331/%	41	48
!	D	15	17	19	21
	E	5	6	8	8
	F	8	9	91/4	91⁄4
Valve Weight	CL125	300	510	730	1030
	CL250	350	635	885	1300
Add for Inlet Isolating CL125 Butterfly Valve. Lbs.		66	132	190	256

Inlet isolating butterfly valve is lever operated in 6" size, worm gear with handwheel in 8" to 10" size Class 125 Figure 980-D only. Inlet isolating BFV not available for 12" Figure 980-D or any size Class 250 flanged Figure 980-U

Dimensions in inches, weight in pounds.

All dimensions and weights are approximate. If critical request certified drawings