

Figures 250-DS, 250-US Air Cushioned Swing Check Valve

Description

GA Industries Figures 250-DS and 250-US heavy duty, customizable swing check valves utilize an adjustable counterweight for rapid closure combined with a highly engineered air cushion chamber to provide non-slam operation.

Typically installed on the discharge of a pump to prevent backflow when the pump is off line, it opens smoothly at pump start and closes quickly and quietly upon pump shutdown.

Especially designed to withstand the rigors of pump station operation, the Figures 250-DS and 250-US meet the design, materials of construction and testing required by AWWA C508 and are suitable for use with water or sewage.

Product Features

- Unique disc design affords 360 degree articulation for tight sealing under all pressure conditions
- Opens to full flow area when swung only 25° away from seat for low head loss and reduced pumping cost
- Bolted cover allows access to all internal components
- Lever & weight and air cushion field convertible right hand to left hand side and from horizontal to vertical installation

Standard Materials

- Body & Disc Cast Iron, ASTM A126 Class B
- Cover Steel, ASTM A36
- Body Seat Stainless Steel, Type 316
- Disc Seat Buna-N
- Hinge Shaft Stainless Steel, Type 303
- Cushion Chamber Bronze
- External Fasteners Steel, A307, Zinc Plated

Corrosion Protection

- Standard: Uncoated Internal, Enamel Primer External

See Option P2 and P3 for upgraded corrosion protection packages

Non-Shock Working Water Pressure at up to 150F (66C)			
Figure No.	250-DS		250-US
Flange	ANSI B16.1 Class 125		ANSI B16.1 Class 250
Size	3" to 12"	14" to 24"	3" to 24"
Max Working Pressure	200 PSI	150 PSI	300 PSI
Shell Test	400 PSI	300 PSI	450 PSI

See Data Sheet 250.02 for larger sizes

Data Sheet 250.01B



Approvals & Certifications

- NSF-61 Certified for Contact with Drinking Water
- NSF-372 Certified Lead Free (Max 0.25% Lead Content by Weighted Average)

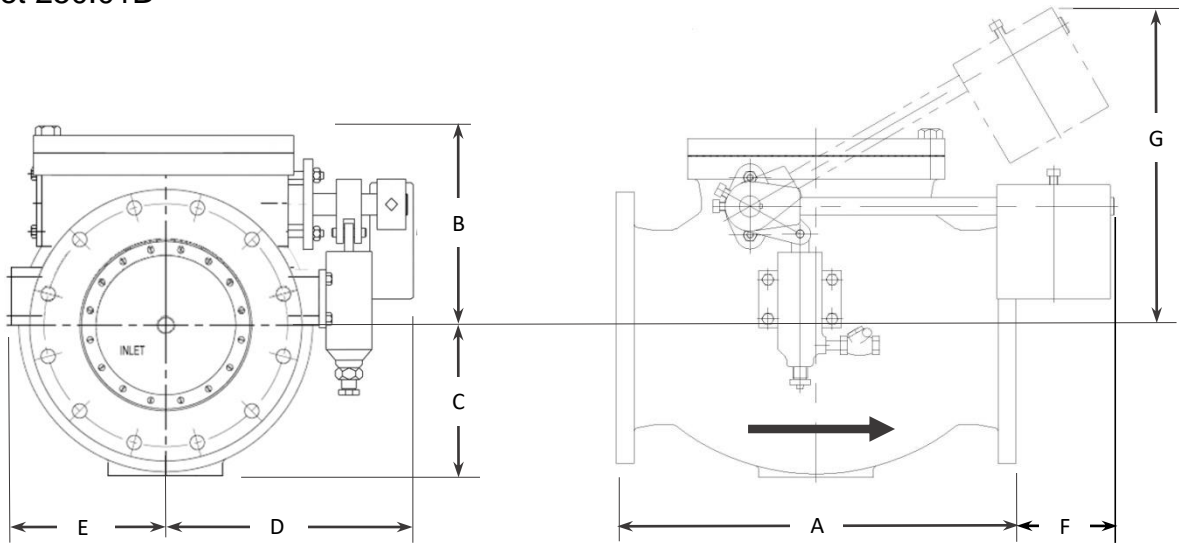
Options

- Option 1D With Honeywell HDLS NEMA 1, 3, 4, 4X, 6, 6P, 12 & 13 DPDT Limit Switch
- Option LH With Lever & Weight Factory Installed on Left Side Facing Inlet
- Option VI Configured for Vertical Flow Up Installation
- Option P2: Minimum 6 mil Internal and External 2-Part NSF-61 Carboline 891 Epoxy and 316 SS External Fasteners
- Option P3 Minimum 6 mil Internal and External 2-Part NSF-61 Carboline 891 Epoxy, 316 SS External Fasteners, 316 SS Hinge Shaft, Disc Center Pin, Lock Nut and Washer, Shaft End Plate, Cushion Chamber Linkage and Pins

Ordering Data

- Figure Number (250-DS or 250-US)
- Size
- Options and/or Accessories

Data Sheet 250.01B

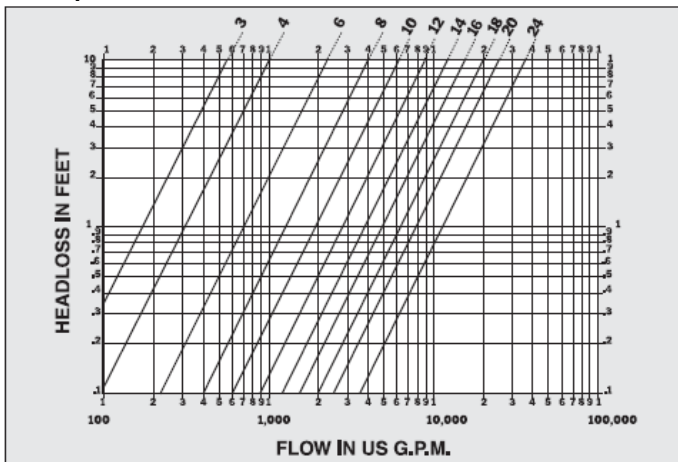


Installation Dimensions

SIZE	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
A	12	13	17½	18	23	28	33	36	40	40	48
B	7	8½	9	12	14	16	22	23	24	24	28
C	5	5	6	9	9	11	13	14	17¼	17¼	20
D	10	11	12	14	15	17	20	24	28	28	34
E	5	5	7	8	9	11	14	16	18	18	21
F	5	4	3	3	--	8	--	-	--	--	1½½
G	15	16	19	21	23	32	34	35	37	37	44
H	9¼	9	10½	9	8	17	14¾	13¾	22½	22½	22½
WGT	101	154	234	310	485	970	1480	1860	2400	2800	6000

- Dimension G is valve fully open, Dimensions F and H are valve fully closed
- Face to face same for both Class 125 and Class 250 flanged valves, Class 250 supplied with flat face
- Dimensions in inches, weight in pounds and are approximate. Request certified drawings if critical.
- Larger sizes available, consult factory

Full Open Head Loss



VERTICAL INSTALLATION

