

# Figures 220-D, 220-U Lever & Weight Swing Check Valves

## Description

GA Industries Figures 220-D and 220-U heavy duty, customizable swing check valves employ an adjustable counterweight for reliable non-slam operation.

These valves are installed on the discharge of a pump to prevent backflow when the pump is offline, opening smoothly at pump start and closing quickly and quietly upon pump shutdown.

Especially designed to withstand the rigors of pump station operation, and especially well suited for use on VFD pumping applications, the Figures 220-D and 220-U meet the design, materials of construction and testing required by AWWA C508 and are suitable for use with water or sewage.

## Product Features

- Opens to full flow area when swung only 25° away from seat for low head loss and reduced pumping cost
- Durable and replaceable rubber disc seat for tight sealing
- Bolted cover allows access to all internal components
- Lever & weight field convertible right hand to left hand side and from horizontal to vertical installation

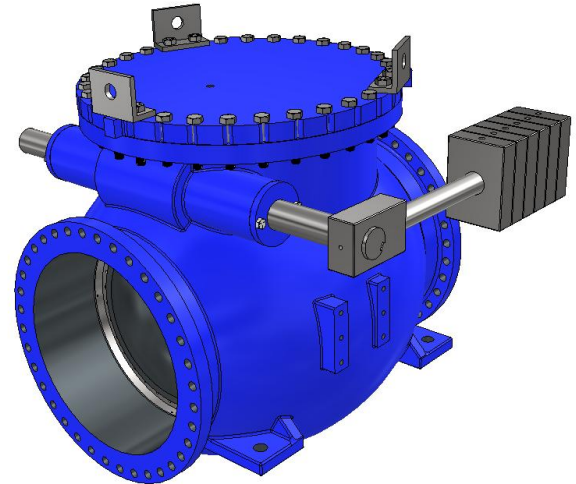
## Standard Materials

- 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
- Coating Internal and external NSF-61/600 certified 2-part epoxy

| Non-Shock Working Water Pressure<br>at up to 150F (66C) |                      |                      |
|---|----------------------|----------------------|
| Figure No.  | 220-D                | 220-U                |
| Flange  | ANSI B16.1 Class 125 | ANSI B16.1 Class 250 |
| Size  | 30" & 36"            | 30" & 36"            |
| Max Working Pressure                                    | 150 PSI              | 300 PSI              |
| Shell Test  | 300 PSI              | 450 PSI              |

See Data Sheet 220.01 for smaller sizes

Data Sheet 220.02D



## Approvals & Certifications

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

## Options

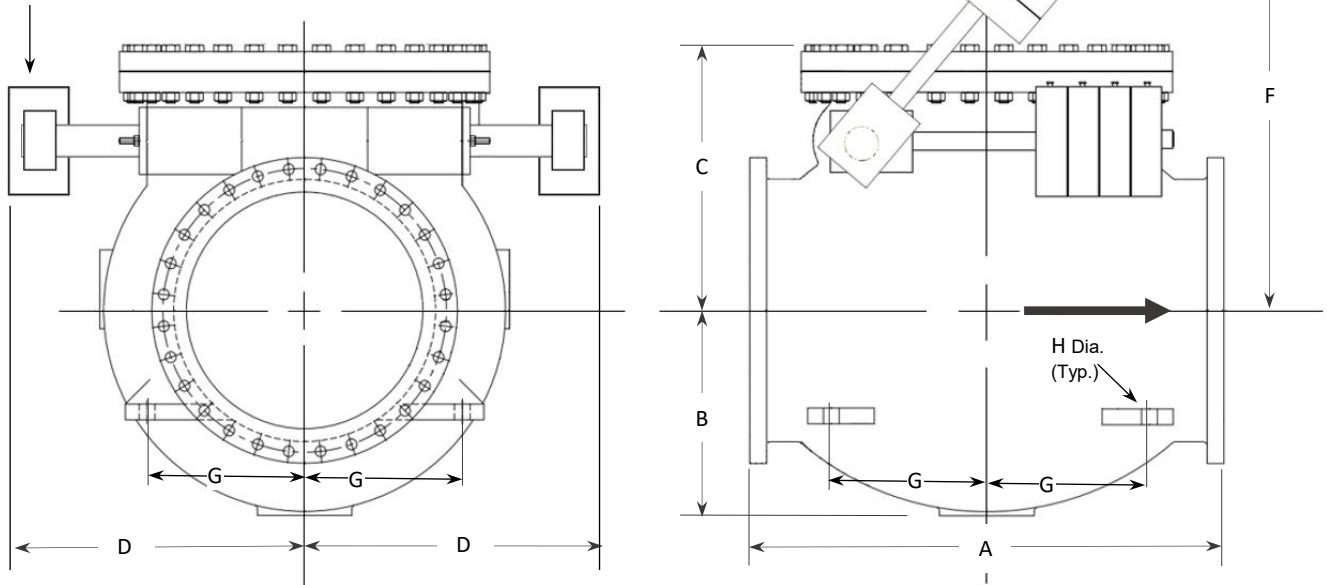
- Option 1D With Honeywell HDLS NEMA 1, 3, 4, 4X, 6, 6P, 12 & 13 DPDT Limit Switch
- Option LH With Lever & Weight Factory Installed on Left Side Facing Inlet
- Option P3 With 316 SS Hinge Shaft, Disc Center Pin, Lock Nut and Washer, Shaft End Plate and External Fasteners
- Option S3 With Type 316 Stainless Steel Hinge Shaft (Included in Option P3)
- Option SE With 316 Stainless Steel External Fasteners (Included in Option P3)
- Option VI Configured for Vertical Flow Up Installation

## Ordering Data

- Figure Number (220-D or 220-U)
- Size
- Options and/or Accessories

Data Sheet 220.02D

DUAL COUNTERWEIGHTS AND ARMS  
SUPPLIED ONLY WHEN NEEDED

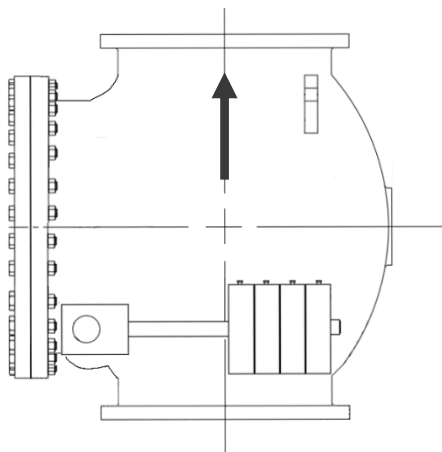


**Installation Dimensions**

| SIZE | A  | B  | C  | D   | F  | G   | H | WGT    |
|------|----|----|----|-----|----|-----|---|--------|
| 30"  | 60 | 26 | 33 | 34½ | 57 | 20  | 2 | 8,000  |
| 36"  | 63 | 30 | 33 | 44  | 60 | 22¾ | 2 | 13,000 |

- Dimension F is valve fully-open.
- 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..

**Vertical Installation**



**Full Open Head Loss**

