



Piping Products – Fire, Plumbing, Industrial

Quality – Service – Commitment – Delivered.

VALVE



SIGMA Corporation

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Fire Valve



## Piping Products – Fire, Plumbing, Industrial

Quality – Service – Commitment – Delivered.



# Specifications

## Fire Valves

**ALL FIRE VALVES MANUFACTURED FOR AND BY SIGMA PIPING PRODUCTS CONFORM TO, COMPLY WITH, AND ARE MANUFACTURED TO THE FOLLOWING STANDARDS:**

ASTM A 126 Class B  
ASTM A 536-  
ASTM A 307B-  
ASME B 62 C83600-  
ASME B 16 C36000-

Standard spec for Cupola Cast Iron  
Standard spec for Ductile Iron Gr. 65-45-12  
Standard spec for Carbon Steel Forgings  
Standard spec for Bronze Casting  
Standard spec for Stainless Steel Forgings

## Brass Ball Valves

**ALL FIRE VALVES MANUFACTURED FOR AND BY SIGMA PIPING PRODUCTS CONFORM TO, COMPLY WITH, AND ARE MANUFACTURED TO THE FOLLOWING STANDARDS:**

ASTM A 307B-  
ASME B 16 C36000-  
ASTM C37700-  
ASTM C85700-

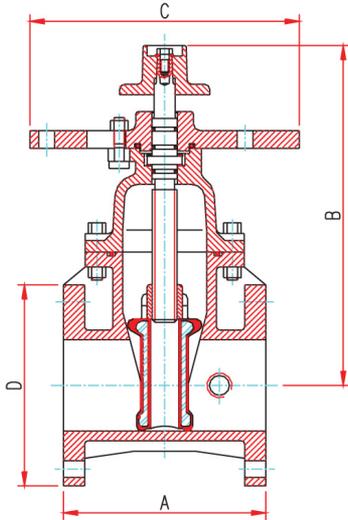
Standard spec for Carbon Steel Forgings  
Standard spec for Brass Casting  
Standard spec for Brass Forgings  
Standard spec for Brass Forgings

# PIV-NRS GATE VALVE

- Design and dimensions conform to FM/UL and AWWA C509
- Specify MJ or Flanged when ordering
- Resilient Seated
- Fusion bonded epoxy coated interior and exterior
- Valve is rated at 200 PSI for Fire Protection Service

## Description

### GATE VALVE NRS FLANGED



■ Flange to ANSI B16.1 Class 125. Other flange drilling available.

#### COMPONENT

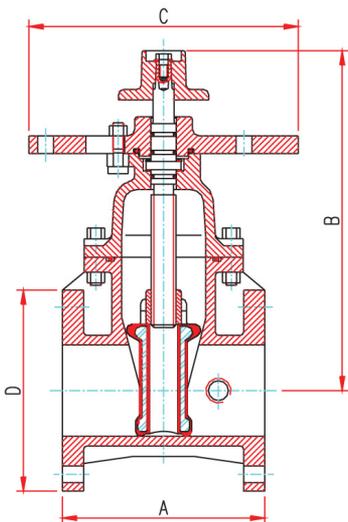
#### MATERIAL

|               |  |
|---------------|--|
| Body          | Cast Iron ASTM A126 Class B              |
| Wedge         | Cast Iron ASTM A126 Class B, EPDM Coated |
| Wedge Nut     | Bronze ASTM B62 C83600                   |
| O-Ring        | EPDM                                     |
| Stem          | Brass ASTM B16 C36000                    |
| Stem          | Stainless Steel AISI 304                 |
| Gasket        | EPDM                                     |
| Bonnet        | Cast Iron ASTM A126 Class B              |
| Washer        | PTFE                                     |
| Post Plate    | Ductile Iron ASTM A536 Gr. 65-45-12      |
| Operating Nut | Ductile Iron ASTM A536 Gr. 65-45-12      |
| Bolts & Nuts  | Stainless Steel                          |

| VALVE SIZE | ITEM CODE | A     | B      | C   | D     |
|------------|-----------|-------|--------|-----|-------|
| 4"         | UFP008    | 9"    | 15.19" | 12" | 9"    |
| 6"         | UFP009    | 10.5" | 18.13" | 12" | 11"   |
| 8"         | UFP010    | 11.5" | 22.44" | 12" | 13.5" |

## Description

### GATE VALVE NRS MECHANICAL JOINT



■ Mechanical Joint ends conform to ANSI / AWWA, A21, 11 / C11

#### COMPONENT

#### MATERIAL

|               |  |
|---------------|--|
| Body          | Cast Iron ASTM A126 Class B              |
| Wedge         | Cast Iron ASTM A126 Class B, EPDM Coated |
| Wedge Nut     | Bronze ASTM B62 C83600                   |
| O-Ring        | EPDM                                     |
| Stem          | Brass ASTM B16 C36000                    |
| Stem          | Stainless Steel AISI 304                 |
| Gasket        | EPDM                                     |
| Bonnet        | Cast Iron ASTM A126 Class B              |
| Washer        | PTFE                                     |
| Post Plate    | Ductile Iron ASTM A536 Gr. 65-45-12      |
| Operating Nut | Ductile Iron ASTM A536 Gr. 65-45-12      |
| Bolts & Nuts  | Stainless Steel                          |

| VALVE SIZE | ITEM CODE | A     | B     | C   | D      |
|------------|-----------|-------|-------|-----|--------|
| 4"         | UFP016    | 11"   | 9"    | 12" | 9.13"  |
| 6"         | UFP017    | 12"   | 22"   | 12" | 11.13" |
| 8"         | UFP018    | 12.5" | 13.5" | 12" | 13.63" |

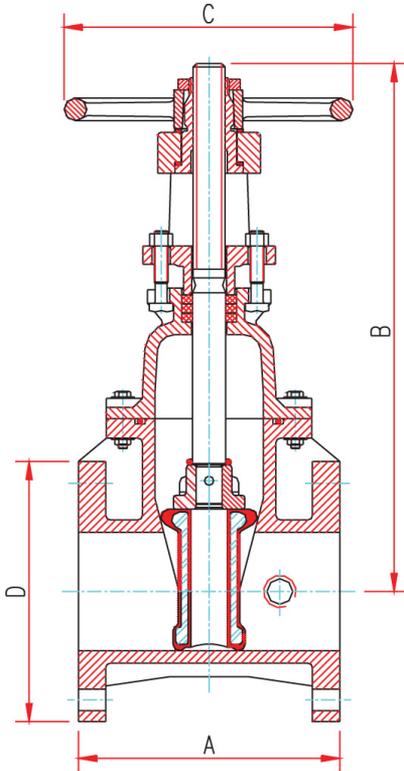
# OS&Y GATE VALVE

- Design and dimensions conform to FM/UL and AWWA C509
- Flanged to ANSI B16.1 Class 125.
- Specify brass or stainless steel stem when ordering
- Fusion bonded epoxy coated interior and exterior
- Valve is rated at 200 PSI for Fire Protection Service

## Description

■ Valve is Resilient Seated

## GATE VALVE OS&Y



### COMPONENT

### MATERIAL

|               |  |
|---------------|--|
| Body          | Cast Iron ASTM A126 Class B                        |
| Wedge         | Cast Iron ASTM A126 Class B, EPDM Coated           |
| Wedge Nut     | Bronze ASTM B62 C83600                             |
| O-Ring        | EPDM   |
| Stem          | Brass ASTM B16 C36000                              |
| Stem          | Stainless Steel AISI 304                           |
| Gasket        | EPDM   |
| Bonnet        | Cast Iron ASTM A126 Class B                        |
| Washer        | PTFE   |
| Packing       | Sq, Braided Non-Asbestos                           |
| Packing Gland | Cast Iron ASTM A 126 Class B                       |
| Yoke Nut      | Bronze ASTM B62 C83600                             |
| Handwheel     | Ductile Iron ASTM A536 Gr. 65-45-12                |
| Lock Nut      | Ductile Iron ASTM A536 Gr. 65-45-12, Chrome Plated |
| Bolts & Nuts  | Stainless Steel                                    |

| VALVE SIZE | ITEM CODE | A      | Open B | Close B | C      | D      |
|------------|-----------|--------|--------|---------|--------|--------|
| 2-1/2"     | UFP001    | 7.5"   | 16.05" | 13.81"  | 7.75"  | 7"     |
| 3"         | UFP002    | 8"     | 19.13" | 16.31"  | 10"    | 7.50"  |
| 4"         | UFP003    | 9"     | 23.81" | 19.31"  | 10"    | 9"     |
| 6"         | UFP004    | 10.50" | 31.13" | 24.75"  | 12"    | 11"    |
| 8"         | UFP005    | 11.50" | 39.44" | 30.56"  | 14"    | 13.50" |
| 10"        | UFP006    | 13"    | 46.75" | 36.75"  | 17.50" | 16"    |
| 12"        | UFP007    | 14"    | 56"    | 43.69"  | 17.50" | 19"    |

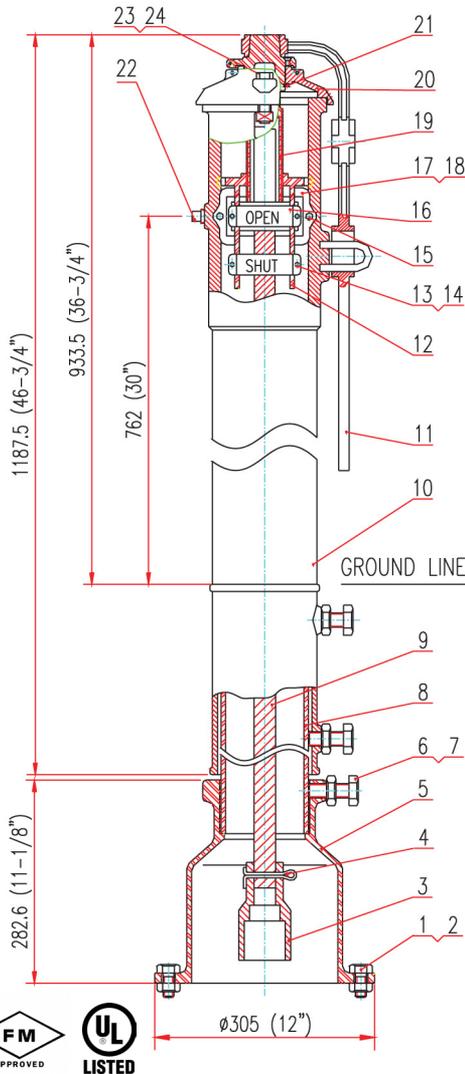
# VERTICAL INDICATOR POST

- Remove the Top Section from the top indicator post assembly
  - Reattach the bottom section to the top of the indicator
  - Cut the required stem length and adjust the Standpipe to match up the Ground Line
  - Set the OPEN and SHUT targets for appropriate size
- Depressurize and drain the piping system before attemptin to install, remove, adjust, or maintain piping products

## Description

## VERTICAL INDICATOR POST

■ Valve is Resilient Seated



| NO. | COMPONENT          | MATERIAL                            |
|-----|--------------------|-------------------------------------|
| 1   | Hex Cap Screw      | Carbon Steel ASTM A307B             |
| 2   | Hex Nut            | Carbon Steel ASTM A307B             |
| 3   | Crane Couplin      | Ductile Iron ASTM A536 Gr. 65-45-12 |
| 4   | Cotter Pin         | Stainless Steel AISI 304            |
| 5   | Base Flan          | Cast Iron ASTM A126 Class B         |
| 6   | Hex Nut            | Carbon Steel ASTM A307B             |
| 7   | Hex Cap Screw      | Carbon Steel ASTM A307B             |
| 8   | Standpipe          | Carbon Steel ASTM A53               |
| 9   | Stem 1" Square     | Carbon Steel AISI 1045              |
| 10  | Bod                | Cast Iron ASTM A126 Class B         |
| 11  | Wrench             | Ductile Iron ASTM A536 Gr. 65-45-12 |
| 12  | Target Carrier Nut | Bronze ASTM B62 C83600              |
| 12  | Target Carrier Nut | Stainless Steel AISI 304            |
| 13  | Hex Cap Screw      | Carbon Steel ASTM A307B             |
| 14  | Hex Nut            | Carbon Steel ASTM A307B             |
| 15  | Hex Cap Screw      | Carbon Steel ASTM A307B             |
| 16  | Tar                | Cast Aluminum                       |
| 17  | Window Glass       | Plexiglass                          |
| 18  | Gasket             | PTFE                                |
| 19  | Operating Nut      | Bronze ASTM B62 C83600              |
| 19  | Operating Nut      | Stainless Steel AISI 304            |
| 20  | Top Section        | Cast Iron ASTM A126 Class B         |
| 21  | Snap Ring          | Stainless Steel AISI 1066           |
| 22  | Plug               | Malleable Iron                      |
| 23  | Square Nut         | Carbon Steel ASTM A307B             |
| 24  | Hex Cap Screw      | Carbon Steel ASTM A307B             |

ITEM CODE  
UFP011

| Extension Sleeve Length | Extension Rod Length | TRENCH DEPTH     |                |                |                |                  |                    |                | Weight in Pounds |
|-------------------------|----------------------|------------------|----------------|----------------|----------------|------------------|--------------------|----------------|------------------|
|                         |                      | 2-1/2" Valve     | 3" Valve       | 4" Valve       | 6" Valve       | 8" Valve         | 10" Valve          | 12" Valve      |                  |
| A-Post<br>3'            | 6'                   | 3'-4" to 5'-4"   | 3'-8" to 5'-8" | 3'-8" to 5'-8" | 4'-1" to 6'-1" | 4'-5" to 6'-5"   | 4'-9.5" to 6'-9.5" | 5'-2" to 7'-2" | 252              |
| B-Post<br>4'-6"         | 7'-6"                | 4'-10" to 6'-10" | 5'-2" to 7'-2" | 5'-2" to 7'-2" | 5'-7" to 7'-7" | 5'-11" to 7'-11" | 6'-3.5" to 8'-3.5" | 6'-8" to 8'-8" | 282              |
| Turns to Open           |                      | 8                | 8              | 10 1/2         | 12 1/2         | 16 1/2           | 20 1/2             | 24 1/2         |                  |

# WALL INDICATOR POST

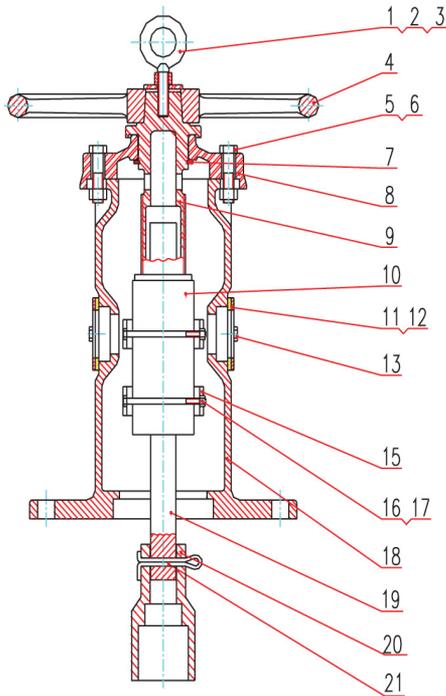
■ Remove the Top Section from the top indicator post assembly ■ Set the OPEN and SHUT targets for appropriate size

■ FM Approved and UL Listed

Depressurize and drain the piping system before attemptin to install, remove, adjust, or maintain piping products

## Description

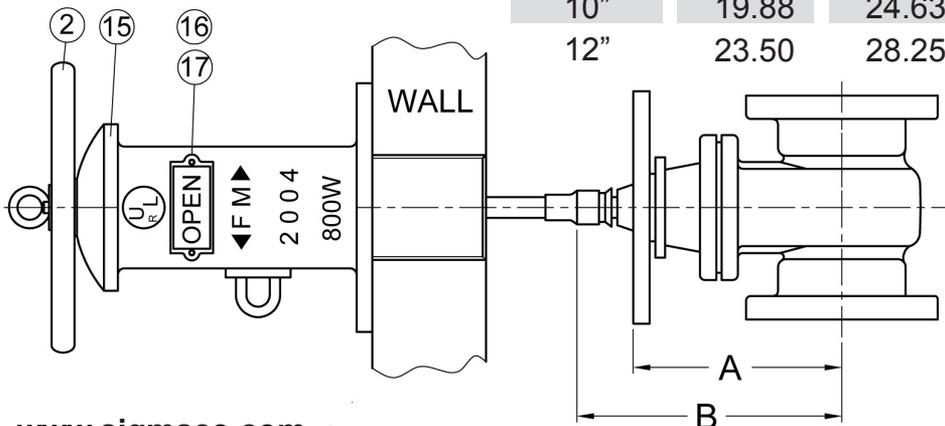
### WALL INDICATOR POST



| NO. | COMPONENT          | MATERIAL                            |
|-----|--------------------|-------------------------------------|
| 1   | Eye Bolt           | Carbon Steel ASTM A307B             |
| 2   | Hex Nut            | Carbon Steel ASTM A307B             |
| 3   | Washer             | Carbon Steel ASTM A570 Gr. 33       |
| 4   | Handwheel          | Ductile Iron ASTM A536 Gr. 65-45-12 |
| 5   | Hex Cap Screw      | Carbon Steel ASTM A307B             |
| 6   | Square Nut         | Carbon Steel ASTM A307B             |
| 7   | Snap Ring          | Stainless Steel AISI 1066           |
| 8   | Cover              | Cast Iron ASTM A126 Class B         |
| 9   | Operating Nut      | Bronze ASTM B62 C83600              |
| 10  | Operating Nut      | Stainless Steel AISI 304            |
| 11  | Target Carrier Nut | Bronze ASTM B62 C83600              |
| 12  | Target Carrier Nut | Stainless Steel AISI 304            |
| 12  | Window Glass       | Plexiglass                          |
| 13  | Gasket             | PTFE                                |
| 14  | Hex Nut            | Carbon Steel ASTM A307B             |
| 15  | Plug               | Malleable Iron                      |
| 16  | Target             | Cast Aluminum                       |
| 17  | Hex Cap Screw      | Carbon Steel ASTM A307B             |
| 18  | Hex Nut            | Carbon Steel ASTM A307B             |
| 19  | Body               | Cast Iron ASTM A126 Class B         |
| 19  | Stem               | Carbon Steel ASTM 1045              |
| 20  | Crane Coupling     | Ductile Iron ASTM A536 Gr. 65-45-12 |
| 21  | Cotter Pin         | Stainless Steel AISI 304            |

ITEM CODE  
UFP012

| Nominal Size | Dimension in Inches |       | Ext. Rod Length | Approx Net. Wt. (Lbs) |
|--------------|---------------------|-------|-----------------|-----------------------|
|              | A                   | B     |                 |                       |
| 4"           | 9.56                | 13.63 | 3"              | 90<br>(All Sizes)     |
| 6"           | 13.69               | 18.00 | 3"              |                       |
| 8"           | 16.50               | 21.00 | 3"              |                       |
| 10"          | 19.88               | 24.63 | 3"              |                       |
| 12"          | 23.50               | 28.25 | 3"              |                       |



#### Note:

1. Used for applications where a valve is installed behind a wall.
2. The wall flange of the wall type Indicator Post is tapped for 4" schedule 40 steel pipe which extends through the wall.
3. Handwheel operation.

# INDICATOR POST INSTALLATION

Depressurize and drain the piping system before attempting to install, remove, adjust, or maintain piping products  
PERFORM THE FOLLOWING STEPS AFTER THE NRS GATE VALVE IS INSTALLED IN THE PIPING SYSTEM

## WALL-POST INDICATOR

1. Open the NRS Gate Valve fully before proceeding with the following steps
2. Using a 3/4" drill bit, drill four holes into the wall. Drill these holes on a 10 3/4-inch/273-mm bolt circle.
3. Mount the body to the wall with four 1/2" bolts on threaded rod.
4. Position the operating rod into the body by placing the operating coupling over the valve's operating nut. Make sure the coupling engages the nut completely.
5. Mark the operating rod where it is flush with the top of the body or outside the body within 1 inch/25-mm from the top. **NOTE:** This measurement is critical for proper operating stem engagement in step 6. Cut the operating rod at the mark. **NOTE:** If the operating rod is removed from the body in order to cut it to the proper length, make sure the operating rod coupling engages the valve's operating nut completely upon re-installation.
6. Re-install the operating stem assembly into the body by aligning the operating stem over the operating rod. **NOTE:** The "OPEN" target plate must show through the window in the body, since the NRS Gate Valve is in the open position.
7. Re-install and tighten two cap bolts/nuts.
8. Turn the handwheel to check for proper operation of the valve and indicator.

## UPRIGHT-POST INDICATOR

1. Loosen the two upper body bolts.
2. Remove the standpipe from the upper body.
3. Align the four holes in the lower-body flange portion with the four holes in the valve's operating plate.
4. Install four 5/8" x 3" bolts, washers, and nuts into the lower-body flange and valve plate.
5. Tighten the nuts until metal-to-metal contact occurs between the flange and the valve plate.
6. Lower the upper body over the standpipe until the bury line mark on the upper body is at ground line.
7. While maintaining the position with the ground line tighten the two upper-body bolts.
8. Lower the operating rod into the body by placing the operating coupling over the valve's operating nut. Make sure the coupling engages the nut completely.
9. Mark the operating rod where it is flush with the top of the body or outside the body within 1 inch/25-mm from the top. **NOTE:** This measurement is critical for proper operating stem engagement in step 10. Cut the operating rod at the mark. **NOTE:** If the operating rod is removed from the body in order to cut the proper length, make sure the operating rod coupling engages the valve's operating nut completely upon re-installation.
10. Re-install the operating stem assembly into the body by aligning the operating stem over the operating rod. **NOTE:** The "OPEN" target plate must show through the window in the body, since the NRS Gate Valve is in the open position.
11. Re-install and tighten the two cap bolts/ nuts.
12. Use the operating wrench to check for proper operation of the indicator. Replace the operating wrench onto the operating stem.

**PLEASE CONTACT [JMSTOHR@sigmaco.com](mailto:JMSTOHR@sigmaco.com) if further instruction is needed.**

[www.sigmaco.com](http://www.sigmaco.com)

# GROOVED UL/FM BUTTERFLY VALVE

■ Size: 2 ½ through 8

■ Working Pressure: 300psi (21.5 bars)

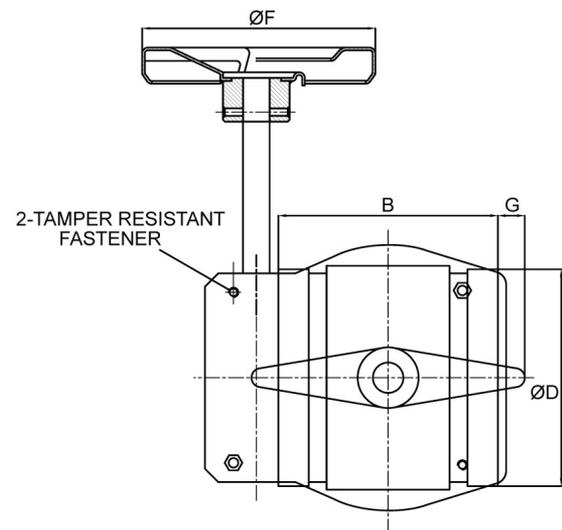
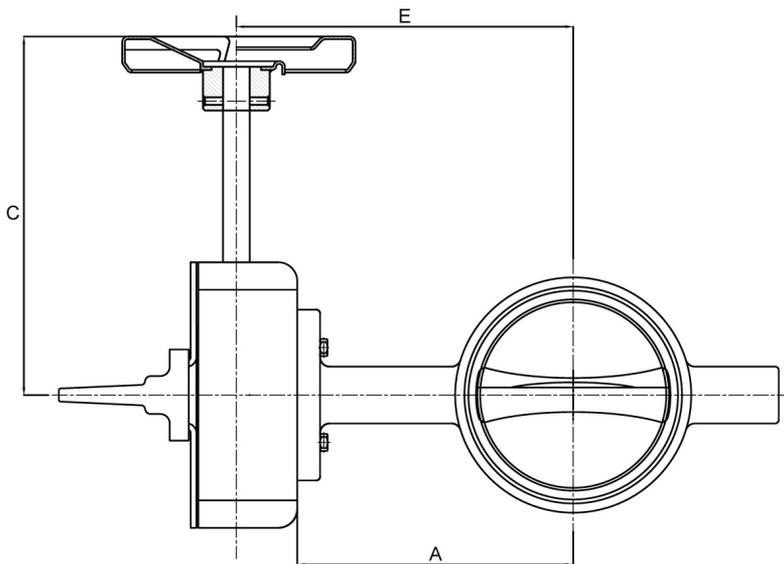
■ Tampered Switch for Indoor and Outdoor use

■ Max. Test Pressure: 600psi (43.0 Bars)

■ Working Temperature: 250F (120°C)

## Description

### GROOVED END BUTTERFLY VALVE



| COMPONENT | MATERIAL                             |
|-----------|--------------------------------------|
| Body      | Ductile Iron, EPDM Encapsulated      |
| Disc      | Al-Bronze, Ni-Cr Plated              |
| Stem      | Syainless Steel, Hardened & Tempered |
| Housing   | Ductile Iron (ASTM A-536)            |
| Handwheel | Ductile Iron (ASTM A-536)            |

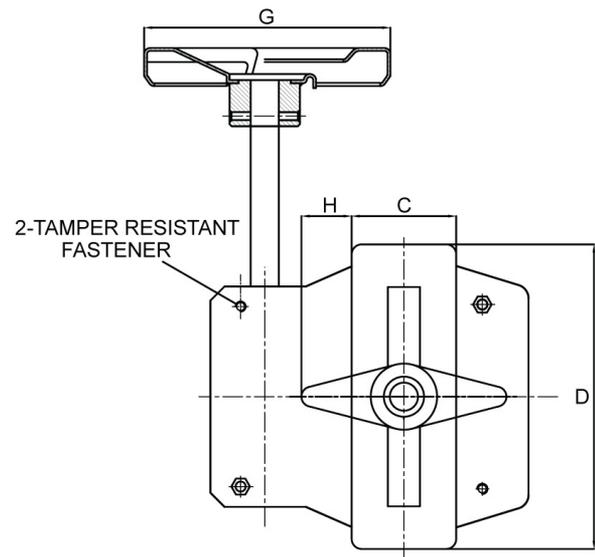
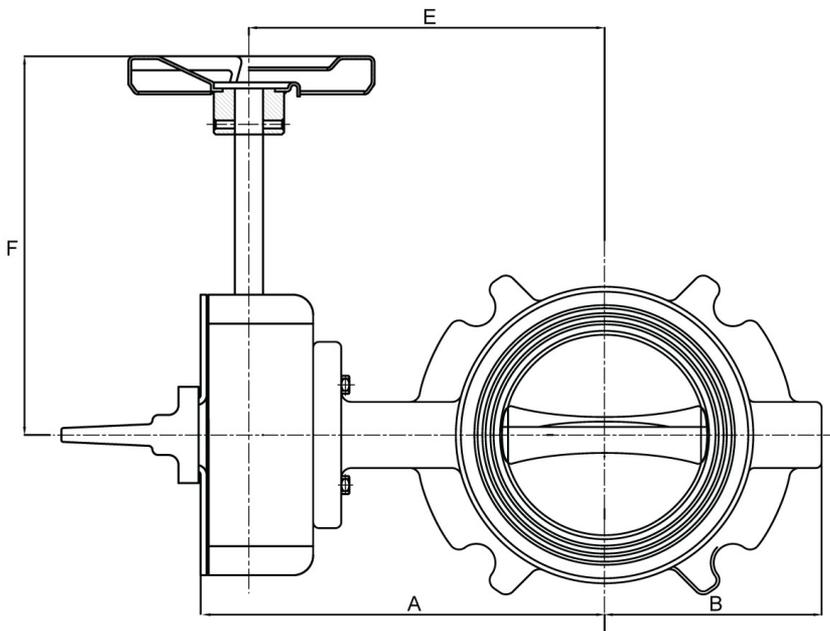
| VALVE SIZE | ITEM CODE | A     | B     | C     | D     | E     | F     | G    |
|------------|-----------|-------|-------|-------|-------|-------|-------|------|
| 2 ½"       | UFP025    | 4.13" | 3.80" | 6.61" | 2.88" | 5.39" | 4.92" |      |
| 3"         | UFP026    | 4.41" | 3.80" | 6.61" | 3.50" | 5.67" | 4.92" |      |
| 4"         | UFP027    | 5.71" | 4.54" | 6.61" | 4.50" | 6.97" | 4.92" |      |
| 6"         | UFP028    | 7.05" | 5.21" | 8.19" | 6.63" | 8.31" | 8.86" | .27" |
| 8"         | UFP029    | 8.03" | 5.80" | 8.19" | 8.62" | 9.29" | 8.86" | .95" |

# WAFER UL/FM BUTTERFLY VALVE

- Size: 2 ½ through 8
- Working Pressure: 300psi (21.5 bars)
- Tampered Switch for Indoor and Outdoor use
- Max. Test Pressure: 600psi (43.0 Bars)
- Working Temperature: 250F (120°C)

## Description

### WAFER END BUTTERFLY VALVE

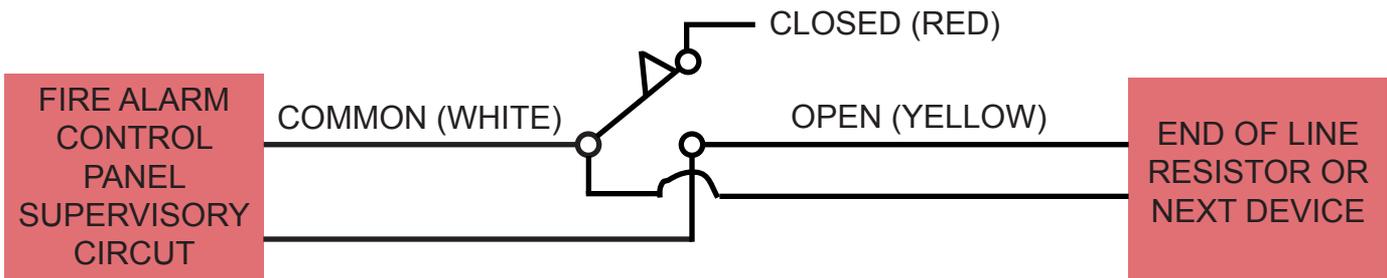


| COMPONENT | MATERIAL                             |
|-----------|--------------------------------------|
| Body      | Ductile Iron, EPDM Encapsulated      |
| Disc      | Al-Bronze, Ni-Cr Plated              |
| Stem      | Syainless Steel, Hardened & Tempered |
| Housing   | Ductile Iron (ASTM A-536)            |
| Handwheel | Ductile Iron (ASTM A-536)            |

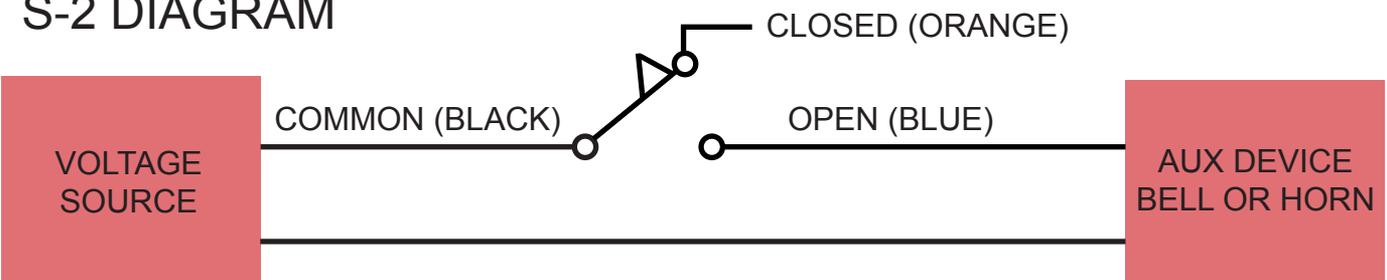
| VALVE SIZE | ITEM CODE | A     | B     | C     | D      | E     | F     | G     | H     |
|------------|-----------|-------|-------|-------|--------|-------|-------|-------|-------|
| 2 ½"       | UFP030    | 4.72" | 3.35" | 1.93" | 4.57"  | 5.91" | 5.91" | 4.92" | .37"  |
| 3"         | UFP031    | 5.00" | 3.62" | 1.93" | 5.20"  | 6.18" | 6.61" | 4.92" | .63"  |
| 4"         | UFP032    | 5.71" | 4.25" | 2.17" | 5.98"  | 6.89" | 6.61" | 4.92" | .98"  |
| 6"         | UFP033    | 7.09" | 5.71" | 2.32" | 8.15"  | 8.27" | 8.19" | 8.86" | 1.78" |
| 8"         | UFP034    | 8.03" | 6.69" | 2.48" | 10.31" | 9.21" | 8.19" | 8.86" | 2.70" |

# BUTTERFLY VALVE WIRING DIAGRAM

## S-1 DIAGRAM



## S-2 DIAGRAM



**RATED:** 5A-1/6HP-125/250V AC

0.5A-125V DC 0.25A-250V DC

### Switch #1 S1

For connection to the supervisory circuit of a UL Listed alarm control panel.

- Normal Closed (2) Red
- Normal Open (2) Yellow
- Common (2) White

### Switch #2

Auxiliary switch which may be connected per authority having jurisdiction to auxiliary device.

- Normal Closed (1) Orange
- Normal Open (1) Blue
- Common (1) Black

# BRASS BALL VALVE

- 600 PSI Rating
- 1/2" through 2" Stock Available

UL Listed and FM Approved

## Description

### BRASS BALL VALVE 600LB. WOG

#### UL APPROVAL:

- Trim and Drain (300 PSI)
- Compressed Gas Shut-off Valve (600 PSI)
- Flammable Liquid Shut-off Valve (600 PSI)
- Gas Shut-off Valve (600 PSI)
- LP-Gas Shut-off Valve (600 PSI)
- Manual Valves (600 PSI)

#### FM APPROVAL:

- 600 PSI Rating

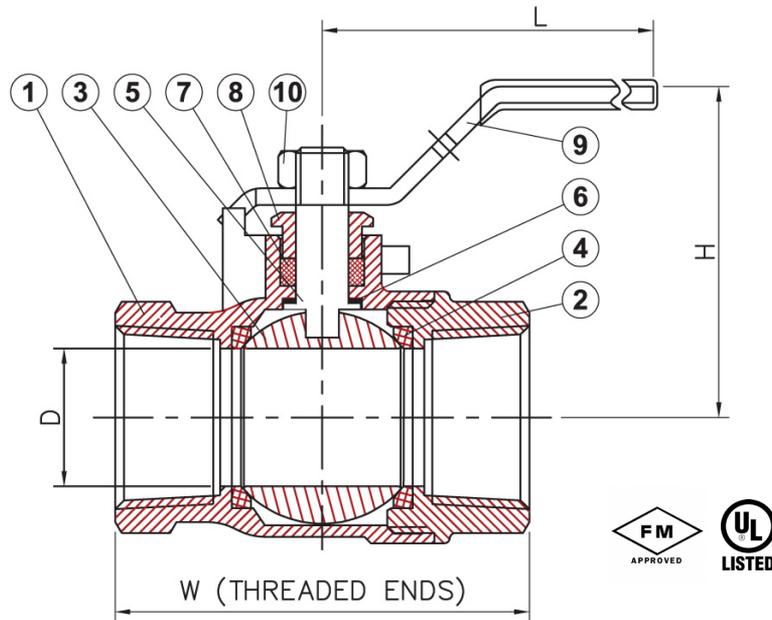
#### NSF 61 APPROVAL:

- Obtained NSF61 Section 8 certificate through IAPMO
- Compliant to Prop65 standard and the testing result is below 5ppb.

#### CSA APPROVAL:

- Pilot Adjustable National Standard of Canada. Class 3371-08 Requirement Can1-91
- Gas Lever Non Lubricated Shut-off Valve. Class 3371-10 Requirement CGA-3.16
- Manual Gas Valves on Piping Systems. Class 3371-12. Requirement CGA CR-9102
- General Gas Valve US Standard. Class 3371-88. Requirement ANSI Z 21.15

| NO. | COMPONENT     | MATERIAL                         |
|-----|---------------|----------------------------------|
| 1   | Body          | Forged Brass ASTM C3770          |
| 2   | End Cap       | Forged Brass ASTM C3770          |
| 3   | Ball          | Brass ASTM C85700 or ASTM C37700 |
| 4   | Seat          | PTFE                             |
| 5   | Stem          | Brass ASTM B16                   |
| 6   | Thrust Washer | PTFE                             |
| 7   | Packing       | PTFE                             |
| 8   | Gland         | Brass ASTM B16                   |
| 9   | Handle        | Carbon Steel Plated              |
| 10  | Nut           | Carbon Steel Plated              |



| VALVE SIZE | ITEM CODE | D     | W     | H     | L     |
|------------|-----------|-------|-------|-------|-------|
| 1/2"       | UFP019    | 0.5"  | 2.12" | 1.45" | 3.23" |
| 3/4"       | UFP020    | 0.75" | 2.41" | 1.78" | 3.94" |
| 1"         | UFP021    | 0.98" | 2.96" | 2.29" | 4.72" |
| 1 1/4"     | UFP022    | 1.22" | 3.28" | 2.44" | 4.72" |
| 1 1/2"     | UFP023    | 1.50" | 3.67" | 3.00" | 7.09" |
| 2"         | UFP024    | 1.97" | 4.21" | 3.30" | 7.09" |

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Fire Valve

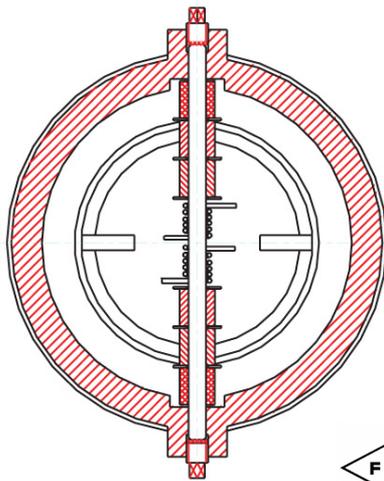
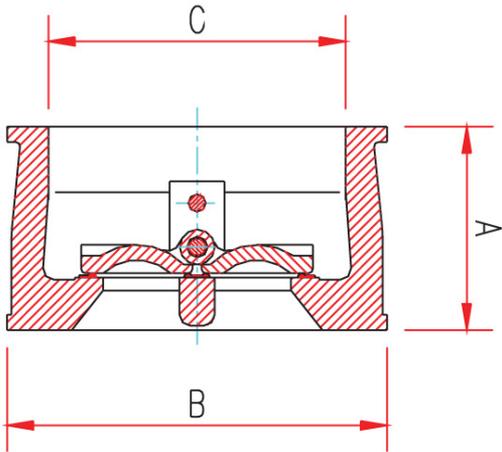
# DOUBLE DOOR CHECK VALVE

- Design and Dimensions conform to UL
- Stainless steel disc and spring for excellent corrosion resistance

- Flanged to ANSI B16.1 Class 125

## Description

### DOUBLE DOOR CHECK VALVE



#### COMPONENT

#### MATERIAL

|              |                             |
|--------------|-----------------------------|
| Body         | Cast Iron ASTM A126 Class B |
| Stop Pin     | Stainless Steel AISI 416    |
| Hinge Pin    | Stainless Steel AISI 416    |
| Seat         | EPDM                        |
| Pin Retainer | Stainless Steel AISI 416    |
| Gasket       | ETFE                        |
| Washer       | ETFE                        |
| Spacer       | ETFE                        |
| Disc         | Stainless Steel ASTM CF8    |
| Spring       | Stainless Steel AISI 304    |
| Lifting Hook | Carbon Steel                |
| Lifting Hook | (Only for 8")               |

#### PRESSURE AND TEMPERATURE

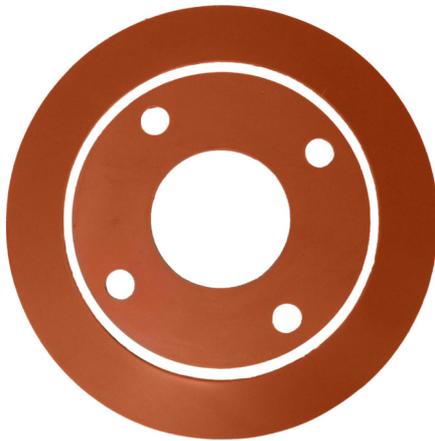
|         |                              |
|---------|------------------------------|
| 175 PSI | NOMINAL PRESSURE             |
| 350 PSI | HYDRAULIC SHELL PRESSURE     |
| 350 PSI | HYDRAULIC SEAT TEST PRESSURE |

| VALVE SIZE | ITEM CODE | A        | B        | C       |
|------------|-----------|----------|----------|---------|
| 4"         | UFP013    | 3 11/16" | 6 3/4"   | 5 3/8"  |
| 6"         | UFP014    | 4 1/8"   | 8 11/16" | 7"      |
| 8"         | UFP015    | 4 3/4"   | 11"      | 9 1/16" |

# ACCESSORIES

Description

## FLANGE PACK



### Packs with Red Rubber FULL FACE Gaskets and ZINC Hardware

| SIZE | 1/8" GASKET | 1/16" GASKET | BOLT SIZE     | HARDWARE TYPE | NO. OF BOLT |
|------|-------------|--------------|---------------|---------------|-------------|
| 2"   | FGP08-02Z   | FGP16-02Z    | 5/8" X 2 1/2" | ZINC          | 4           |
| 2.5" | FGP08-025Z  | FGP16-025Z   | 5/8" X 2 1/2" | ZINC          | 4           |
| 3"   | FGP08-03Z   | FGP16-03Z    | 5/8" X 2 1/2" | ZINC          | 4           |
| 4"   | FGP08-04Z   | FGP16-04Z    | 5/8" X 3"     | ZINC          | 8           |
| 5"   | FGP08-05Z   | FGP16-05Z    | 3/4" X 3"     | ZINC          | 8           |
| 6"   | FGP08-06Z   | FGP16-06Z    | 3/4" X 3 1/2" | ZINC          | 8           |
| 8"   | FGP08-08Z   | FGP16-08Z    | 3/4" X 3 1/2" | ZINC          | 8           |
| 10"  | FGP08-10Z   | FGP16-10Z    | 7/8" X 4"     | ZINC          | 12          |
| 12"  | FGP08-12Z   | FGP16-12Z    | 7/8" X 4"     | ZINC          | 12          |

### Packs with Red Rubber RING Gaskets and ZINC Hardware

| SIZE | 1/8" GASKET | 1/16" GASKET | BOLT SIZE     | HARDWARE TYPE | NO. OF BOLT |
|------|-------------|--------------|---------------|---------------|-------------|
| 2"   | FRP08-02Z   | FRP16-02Z    | 5/8" X 2 1/2" | ZINC          | 4           |
| 2.5" | FRP08-025Z  | FRP16-025Z   | 5/8" X 2 1/2" | ZINC          | 4           |
| 3"   | FRP08-03Z   | FRP16-03Z    | 5/8" X 2 1/2" | ZINC          | 4           |
| 4"   | FRP08-04Z   | FRP16-04Z    | 5/8" X 3"     | ZINC          | 8           |
| 5"   | FRP08-05Z   | FRP16-05Z    | 3/4" X 3"     | ZINC          | 8           |
| 6"   | FRP08-06Z   | FRP16-06Z    | 3/4" X 3 1/2" | ZINC          | 8           |
| 8"   | FRP08-08Z   | FRP16-08Z    | 3/4" X 3 1/2" | ZINC          | 8           |
| 10"  | FRP08-10Z   | FRP16-10Z    | 7/8" X 4"     | ZINC          | 12          |
| 12"  | FRP08-12Z   | FRP16-12Z    | 7/8" X 4"     | ZINC          | 12          |

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# Products for Fire, Plumbing and Industrial

## COMPANY OVERVIEW

Our mission is to supply the highest quality engineered products to customers in the Commercial & Residential Plumbing, Gas, Electrical, Industrial, Fire Protection and HVAC industries. SIGMA uses its relationships with the most qualified and reliable suppliers in the world along with the comprehensive knowledge of supply chain management to provide the finest quality services available.

Our experience, technical expertise and network of global resources enables us to offer the advantages of using a “one-stop shop”. This provides engineering, quality assurance, product scheduling, importing, warehousing and delivery.

SIGMA Piping Products is a division of SIGMA Corporation. SIGMA Corporation has been developing products for the North American Water and Wastewater industry for over 25 years. Today we are one of the world’s largest suppliers of specialty water products within the American Waterworks Association (AWWA) range. At SIGMA we are proud to offer the highest quality ductile iron waterworks fittings, pipe restraint products and municipal casting products available in the market. We operate a network of warehouses and distribution offices that provide us with a national reach.

The company has grown rapidly through an increased focus on geographic expansion and by broadening our extensive product line. We have recently complemented our portfolio by acquiring a number of new product lines to service the Fire Protection, Plumbing and Industrial industries. These strategic acquisitions broaden our business and play to the strengths of the SIGMA team.

## SHIPPING LOCATIONS

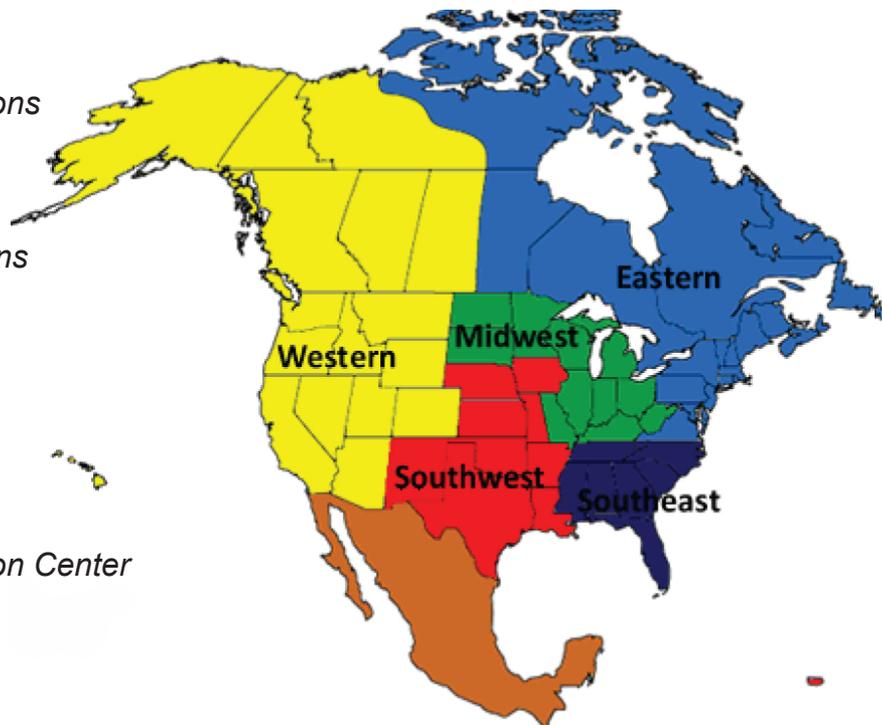
*Southwest & Midwest Regions*  
5000 Askins  
Houston, TX 77093

*Southeast & Eastern Regions*  
1500 Hwy 22 W  
Alexander City, AL 35010

*Western Region*  
316 Bonview Ave.  
Ontario, CA 91761

*Pacific Northwest Distribution Center*  
902 W. Main Street  
Auburn, WA 98001

(800) 999-0109



# Products for Fire, Plumbing and Industrial

## Quality Management

SIGMA believes that quality does not cost, it pays. Our team commitment to quality is to maximize the combined value of our service to each of our customers by supplying all of our products to the highest requirements and standards of customer satisfaction. We strive to ensure that our products are delivered free of defects at a competitive price with the utmost attention to all aspects of product development, production and supply chain management.

The SIGMA Quality Plan is unique to the industry. We have designed our Quality Plan to assure reliability to the highest level. The plan starts with each casting having a casting ID that we call a heat number that enables us to identify the location, production facility, date and batch of production.

SIGMA uses detailed Quality Inspection Procedures (QIP) for each product category to guide our overseas production facilities. These QIPs incorporate the relevant standards and go much further in detail as to what SIGMA expects the factory to do. The aggregation of the QIPs, the Quality Plan and Statistical Process Control together assures SIGMA and our customers of the high reliability of our products.

## Associations/Approvals/Listings/Memberships



----- American Fire Sprinkler Association



----- National Fire Sprinkler Association



----- Factory Mutual Approves



----- MEA Listed (New York City Approval)



----- American Society for Testing Materials



----- American National Standards Institute



----- American Society Of Mechanical Engineers



----- Underwriters' Laboratories



LISTED

----- Underwriters' Laboratories of Canada & US



----- Underwriters' Laboratories of Canada



## LOCATIONS

### Corporate Head Quarters

Cream Ridge, NJ  
 Phone (800) 999-0109  
 Fax (281) 987-0200  
 spp-sales@sigmaco.com

### Southeast & Eastern Regions

Alexander City, AL  
 Phone (800) 999-0109  
 Fax (281) 987-0200  
 spp-sales@sigmaco.com

### Western Region

Ontario, CA  
 Phone (800) 999-0109  
 Fax (281) 987-0200  
 spp-sales@sigmaco.com

Auburn, WA  
 Phone (800) 999-0109  
 Fax (281) 987-0200  
 spp-sales@sigmaco.com

### Southwest & Midwest Regions

Houston, TX  
 Phone (800) 999-0109  
 Fax (281) 987-0200  
 spp-sales@sigmaco.com

### Threaded Fittings



- Black Malleable Iron (3/8" - 4") - 300psi, CL150
- Galvanized Malleable Iron (3/8" - 4") - 300psi CL150
- Cast Iron (1" - 2-1/2") - 300psi, CL150
- Ductile Iron (1" - 2") - 500psi, CL150
- UL Listed
- FM Approved

### Steel Pipe Nipples Domestic and Import



- Schedule 40 Carbon Steel, Welded
- 66- Nipple Pack (1/2" and 3/4")
- Black Steel (1/4" - 6")
- Galvanized Steel (1/4" - 6")
- Conforms to ASTM A53
- Conforms to ANSI/ASME B.120.1

### Welded Products Domestic and Import



- Steel Welding Plate Flanges (2" - 12")
- Uni-Let Import Threaded Weld Outlet (1/2" - 2")
- Sig-Let Domestic Threaded Weld Outlet (1/2" - 2")
- Grooved Welding Outlet (1-1/2" - 8")
- Welding Templates for Uni-Let
- UL Listed
- FM Approved

### Indicator Posts



- Vertical Indicator Posts
- Wall Mounted Indicator Posts
- UL Listed
- FM Approved

### Gate Valves



- Mechanical Joint, non rising stem (4" - 12")
- Flanged Joint, non rising stem (4" - 12")
- Flanged Joint, OS&Y (4" - 12")
- 300psi working pressure
- UL Listed
- FM Approved

### Fire Valves



- Butterfly - Grooved or Wafer (2-1/2" - 8")
- Threaded Brass ball valves (1/2" - 2")
- Double door check valves (4" - 12")
- UL Listed
- FM Approved

### Cast Iron Flanged Fittings



- Cast Iron / Ductile Iron Flanged (2" - 12")
- Flange and MJ Accessory Packs
- ANSI/AWWA C110/A21.10
- Bare, Cement Lined, Special coatings and Linings
- 250psi
- UL Listed
- FM Approved

[www.sigmaco.com](http://www.sigmaco.com)

Terms and Conditions of Sales available at our website.