

# FIRE PROTECTION PRODUCTS



## Company Profile

### **GALA - Extends Business on a Global Perspective.**

GALA company offers a wide range of products and systems in the field of valves, piping, and seismic isolation for applications ranging from equipment for office buildings, fire fighting, heating, water works, sewerage, marine, industrial to top fluid control. Our aim is meaningful contribution to society by providing comfort and safety through our products, technical skills and services!

### **GALA - Professional Manufacturer of Industrial Valves**

GALA have variety products to meet customer demand of different valve. Designing, manufacture and sale of one-stop service is the company's core strengths.

### **GALA products cover the following industry area:**

Water supply system, water treatment, food, chemical, cement, air-conditioning systems, industry engineering, nuclear power, papermaking, Petrochemical Industry, pharmaceutical, Powder Industry, steel industry, sugar refining, textiles and so on. GALA anti-pollution environmental protection industry is one of the major business. GALA provides various valve for wastewater processing and exhaust gas processing.

### **GALA have wide variety of industrial valves, including following main products:**

- ◆ Fire Protection Valve
- ◆ Balancing Valve
- ◆ Butterfly Valve
- ◆ Gate Valve, Globe Valve, Check Valve, Ball Valve
- ◆ Strainer
- ◆ Flexible Rubber Joint
- ◆ Flexible Stainless Steel Hose, Expansion Joint

Other Valves and fittings are also available from GALA.

All products will be designed, manufactured and assembly by GALA.



## CONTENTS

### Gate Valve

|                                                     |    |
|-----------------------------------------------------|----|
| 322FF Resilient Seated NRS Type-Flanged Ends        | 1  |
| 322FG Resilient Seated NRS Type-Flange-Groove Ends  | 3  |
| 322GG Resilient Seated NRS Type-Groove-Groove Ends  | 4  |
| 322JJ Resilient Seated NRS Type-MJ-MJ Ends          | 5  |
| 322FJ Resilient Seated NRS Type-Flanged-MJ Ends     | 6  |
| 333FF Resilient Seated OS&Y Type-Flanged Ends       | 7  |
| 333FG Resilient Seated OS&Y Type-Flange-Groove Ends | 9  |
| 333GG Resilient Seated OS&Y Type-Groove-Groove Ends | 10 |
| 333JJ Resilient Seated OS&Y Type-MJ-MJ Ends         | 11 |
| 333FJ Resilient Seated OS&Y Type-Flanged-MJ Ends    | 12 |
| Pressure-Temperature Chart                          | 13 |

### Indicator Post

|                                        |    |
|----------------------------------------|----|
| G388 Indicator Post - Underground Type | 14 |
| G322 Indicator Post - Underground Type | 15 |
| G345 Indicator Post - Underground Type | 16 |
| W388 Indicator Post - Wall Type        | 17 |
| W345 Indicator Post - Wall Type        | 18 |

### Swing Check Valve

|                                                     |    |
|-----------------------------------------------------|----|
| 55FF Resilient Seated Flanged Ends                  | 19 |
| 50GG Resilient Seated Grooved Ends                  | 20 |
| 50GGP Resilient Seated Grooved Ends Riser (Shotgun) | 21 |
| 50W Resilient Seated Wafer Ends                     | 22 |
| Pressure-Temperature Chart                          | 23 |

### Y Strainer

|                            |    |
|----------------------------|----|
| 70FF Flanged Ends          | 24 |
| 70FG Flange-Groove Ends    | 25 |
| 70GG Groove-Groove Ends    | 26 |
| Pressure-Temperature Chart | 27 |

### Butterfly Valve

|                                        |    |
|----------------------------------------|----|
| 25W Resilient Seated Wafer Ends        | 28 |
| 25L Resilient Seated Lug Ends          | 29 |
| 25GG Resilient Seated Grooved Ends     | 30 |
| 20GG/22G Resilient Seated Grooved Ends | 31 |
| 20T/22T Resilient Seated Screwed Ends  | 32 |

### Air Vent Valve

|                        |    |
|------------------------|----|
| 9712 Air Release Valve | 33 |
|------------------------|----|

### Fire Hydrant

|                              |    |
|------------------------------|----|
| 1510 Dry Barrel Fire Hydrant | 34 |
| 1511 Wet Barrel Fire Hydrant | 35 |

### Water Flow Detector With Retard

|                                        |    |
|----------------------------------------|----|
| 1042-V Water Flow Detector With Retard | 38 |
| 1042-T Water Flow Detector With Retard | 40 |

## Certificate

### CERTIFICATE OF COMPLIANCE

**Certificate Number:** 20130703-EX16375  
**Report Reference:** EX16375-20130701  
**Issue Date:** 2013-JULY-03

**Issued to:** GALA RS INC  
 SUITE 201  
 11200 WESTHEIMER RD  
 HOUSTON, TX, 77042, US

**This is to certify that representative samples of** STRAINERS, PIPELINE  
 Strainers, basket type - 70FF-300, 70FG-300, 70GG-300,  
 70FF-250, 70FG-250, 70GG-250, 70FF-200, 70FG-200,  
 70GG-200.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** UL Subject 321 - Outline of Investigation for Pipeline Strainers.

**Additional Information:** See the UL Online Certifications Directory at [www.ul.com/database](http://www.ul.com/database) for additional information.

Only those products bearing the UL Listing Mark should be considered as being covered by UL's Listing and Follow-Up Service.  
 The UL Listing Mark generally includes the following elements: the symbol UL in a circle, with the word "LISTED" or a control number (may be alphanumeric) assigned by UL, and the product category name (product identifier) as indicated in the appropriate UL Directory.  
 Look for the UL Listing Mark on the product.

William R. Gandy, Director, UL's American Certification Programs  
 As Test  
 Any reproduction or alteration of this UL Mark without the express written consent of UL, LLC, or any authorized licensee of UL, for any purpose, is prohibited. Contact your UL Service Representative for more information.

Page 1 of 1

### CERTIFICATE OF COMPLIANCE

**Certificate Number:** 20190608-EX15969  
**Report Reference:** EX15969-20121023  
**Issue Date:** 2019-MAY-06

**Issued to:** TIANJIN GALAXY VALVE CO LTD  
 15 TIANHUA RD  
 BALITAI INDUSTRIAL AREA  
 JINNAN DISTRICT  
 TIANJIN  
 300350 CHINA

**This certificate confirms that representative samples of** CHECK VALVES  
 See addendum page for models.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** UL 312 - Check Valves for Fire-Protection Service  
 UL/ORD C312-07 - Check Valves for Fire-Protection Service

**Additional Information:** See the UL Online Certifications Directory at <https://in.ulprospector.com> for additional information.

This Certificate of Compliance does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.  
 Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Service.  
 Look for the UL Certification Mark on the product.



### Certificate of Compliance

This certificate is issued for the following:

**AIR RELEASE VALVES**

**Model 9712**  
**Sizes 1/2, 3/4 and 1 inch NPS**

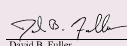
**Prepared for:**  
 Gala RS Inc.  
 11200 Westheimer, Suite 201  
 Houston, TX 77042  
 USA

FM Approvals Class: 1344 Air Release Valves 1/2 Inch through 1 Inch, dated January 2010

Approval Identification: PR452028      Approval Granted: November 5, 2018

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

  
 David B. Fuller  
 VP, Manager - Fire Protection  
 FM Approvals  
 1151 Boston-Providence Turnpike  
 Norwood, MA 02062 USA







### Certificate of Compliance

This certificate is issued for the following:

**OS&Y Gate Valve      Model 333**  
**NRS Gate Valve      Model 322**  
**Check Valve      Model 55FF**

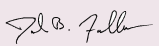
**Prepared for:**  
 Gala RS Inc.  
 11200 Westheimer, Suite 201  
 Houston, TX 77042

FM Approvals Class: 1120/1130

Approval Identification: 0003062711      Approval Granted: July 20, 2017

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

  
 David B. Fuller  
 VP, Manager - Fire Protection  
 FM Approvals  
 1151 Boston-Providence Turnpike  
 Norwood, MA 02062 USA







### Certificate of Compliance

This certificate is issued for the following:

**OUTSIDE SCREW & YOKE TYPE (OS&Y) GATE VALVE**  
 MODELS 399FF-300, 399FF-250, 399FF-200, 399GG-300, 399GG-250, 399GG-200,  
 399FG-300, 399FG-250, 399FG-200

**NON-RISING STEM TYPE (NRS) GATE VALVE**  
 MODELS 388FF-300, 388FF-250, 388FF-200, 388GG-300, 388GG-250, 388GG-200,  
 388FG-300, 388FG-250, 388FG-200

INDICATOR POST MODELS G388 AND W388

SWING CHECK VALVE MODELS 50FF -300, 50FF-250, 50FF-200

**Prepared for:**  
 GALA RS Inc.  
 11200 Westheimer  
 Suite 201  
 Houston, TX 77042

FM Approvals Class: 1120/1130, 1110, 1210

Approval Identification: 0003049247      Approval Granted: July12, 2013

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

  
 Richard B. Dunne  
 Group Manager - Fire Protection  
 FM Approvals  
 1151 Boston-Providence Turnpike  
 Norwood, MA 02062







# Gate Valve

Resilient Seated NRS Type-Flanged Ends

Fig. 322FF-300  
322FF-250  
322FF-200



## Valve Standard

Conforms to AWWA C515 / BS5163

Fusion bonded coating comply with AWWA C550

## Working pressure

200PSI / 250PSI / 300PSI

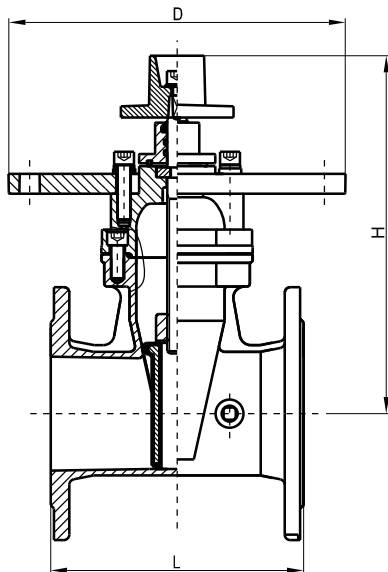
## Working Temperature

-10°C to 120°C

## Connection Ends

ANSI B16.1 CLASS125/B16.42 CLASS150

EN1092-2 PN16



## Materials List

| Part Name     | Material                 | Specification |
|---------------|--------------------------|---------------|
| Body          | Ductile Iron             | A536 65-45-12 |
| Wedge Disc    | Ductile Iron EPDM Coated |               |
| Disc Nut      | Bronze                   | ASTM B62      |
| Stem          | Stainless Steel          | AISI 304/420  |
| Gasket        | EPDM                     | Commercial    |
| Bonnet        | Ductile Iron             | A536 65-45-12 |
| Thrust Collar | Bronze                   | ASTM C51100   |
| Gland         | Ductile Iron             | A536 65-45-12 |
| Wrench Nut    | Ductile Iron             | A536 65-45-12 |
| Post Plate    | Ductile Iron             | A536 65-45-12 |

## Dimensions(mm/inch):

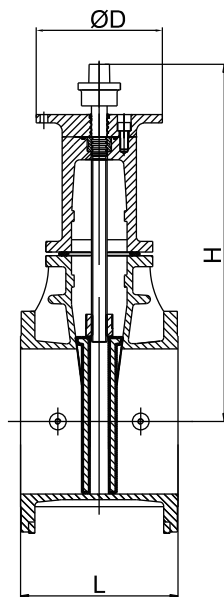
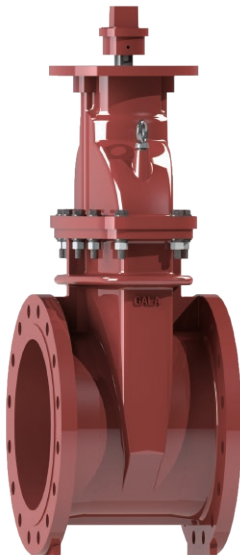
| SIZE | mm   | 50    | 65    | 80    | 100   | 125   | 150   | 200   | 250   | 300   |
|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|      | inch | 2     | 2 1/2 | 3     | 4     | 5     | 6     | 8     | 10    | 12    |
| L    | mm   | 178   | 191   | 203   | 229   | 254   | 267   | 292   | 330   | 356   |
|      | inch | 7.00  | 7.50  | 8.00  | 9.00  | 10.00 | 10.50 | 11.50 | 13.00 | 14.00 |
| H    | mm   | 279   | 279   | 305   | 324   | 394   | 428   | 537   | 640   | 723   |
|      | inch | 10.98 | 10.98 | 12.01 | 12.76 | 15.51 | 16.85 | 21.14 | 25.20 | 28.46 |
| D    | mm   | 305   | 305   | 305   | 305   | 305   | 305   | 305   | 305   | 305   |
|      | inch | 12.01 | 12.01 | 12.01 | 12.01 | 12.01 | 12.01 | 12.01 | 12.01 | 12.01 |

Note: Subject to change without prior notice due to products optimization.

# Gate Valve

Resilient Seated NRS Type-Flanged Ends

Fig. 322FF-250(DN350-DN450)  
322FF-200(DN500-DN600)



## Valve Standard

Conforms to AWWA C515 / BS5163

Fusion bonded coating comply with AWWA C550

## Working pressure

200PSI / 250PSI

## Working Temperature

-10°C to 120°C

## Connection Ends

ANSI B16.1 CLASS125/B16.42 CLASS150

EN1092-2 PN16

## Materials List

| Part Name     | Material                 | Specification |
|---------------|--------------------------|---------------|
| Body          | Ductile Iron             | A536 65-45-12 |
| Wedge Disc    | Ductile Iron EPDM Coated |               |
| Disc Nut      | Bronze                   | ASTM B62      |
| Stem          | Stainless Steel          | AISI 304/420  |
| Gasket        | EPDM                     | Commercial    |
| Bonnet        | Ductile Iron             | A536 65-45-12 |
| Thrust Collar | Bronze                   | ASTM C51100   |
| Gland         | Ductile Iron             | A536 65-45-12 |
| Wrench Nut    | Ductile Iron             | A536 65-45-12 |
| Post Plate    | Ductile Iron             | A536 65-45-12 |

## Dimensions(mm/inch):

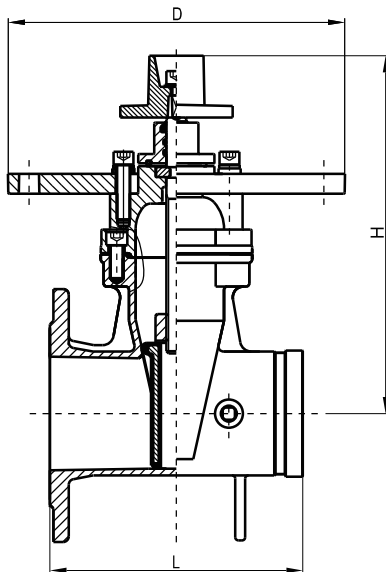
| SIZE | mm   | 350   | 400   | 450   | 500   | 600   |
|------|------|-------|-------|-------|-------|-------|
|      | inch | 14    | 16    | 18    | 20    | 24    |
| L    | mm   | 381   | 406   | 432   | 457   | 508   |
|      | inch | 15.00 | 15.98 | 17.01 | 17.99 | 20.00 |
| H    | mm   | 862   | 938   | 1057  | 1142  | 1295  |
|      | inch | 33.94 | 36.93 | 41.61 | 44.96 | 50.98 |
| D    | mm   | 305   | 305   | 305   | 305   | 305   |
|      | inch | 12.01 | 12.01 | 12.01 | 12.01 | 12.01 |

Note: Subject to change without prior notice due to products optimization.

# Gate Valve

Resilient Seated NRS Type-Flange-Groove Ends

Fig. 322FG-300  
322FG-250  
322FG-200



## Valve Standard

Conforms to AWWA C515 / BS5163  
Fusion bonded coating comply with AWWA C550

## Working pressure

200PSI / 250PSI / 300PSI

## Working Temperature

-10°C to 120°C

## Connection Ends

ANSI B16.1 CLASS125/B16.42 CLASS150  
EN1092-2 PN16  
AWWA C 606  
VDS2100/AS2638.2

## Materials List

| Part Name     | Material                 | Specification |
|---------------|--------------------------|---------------|
| Body          | Ductile Iron             | A536 65-45-12 |
| Wedge Disc    | Ductile Iron EPDM Coated |               |
| Disc Nut      | Bronze                   | ASTM B62      |
| Stem          | Stainless Steel          | AISI 304/420  |
| Gasket        | EPDM                     | Commercial    |
| Bonnet        | Ductile Iron             | A536 65-45-12 |
| Thrust Collar | Bronze                   | ASTM C51100   |
| Gland         | Ductile Iron             | A536 65-45-12 |
| Wrench Nut    | Ductile Iron             | A536 65-45-12 |
| Post Plate    | Ductile Iron             | A536 65-45-12 |

## Dimensions(mm/inch):

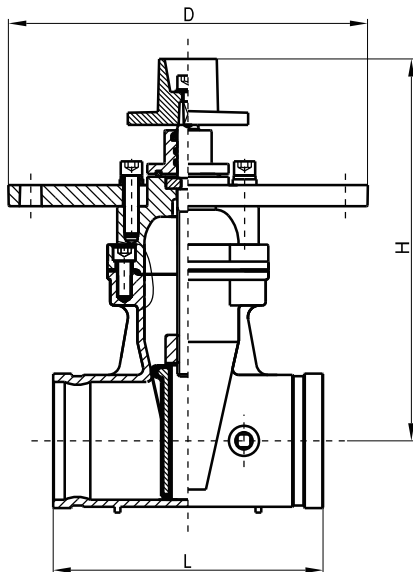
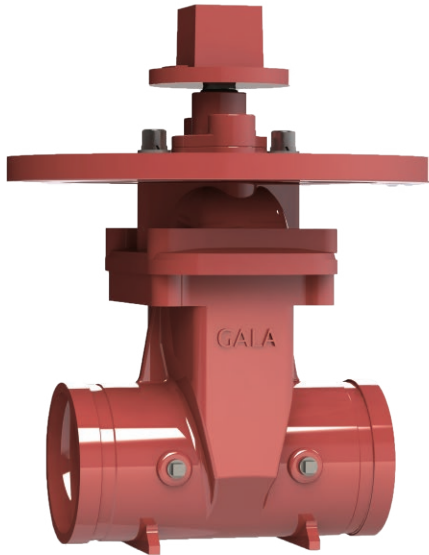
| SIZE | mm   | 50    | 65    | 80    | 100   | 125   | 150   | 200   | 250   | 300   |
|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|      | inch | 2     | 2 1/2 | 3     | 4     | 5     | 6     | 8     | 10    | 12    |
| L    | mm   | 178   | 191   | 203   | 229   | 254   | 267   | 292   | 330   | 356   |
|      | inch | 7.00  | 7.50  | 8.00  | 9.00  | 10.00 | 10.50 | 11.50 | 13.00 | 14.00 |
| H    | mm   | 279   | 279   | 305   | 324   | 394   | 428   | 537   | 640   | 723   |
|      | inch | 10.98 | 10.98 | 12.01 | 12.76 | 15.51 | 16.85 | 21.14 | 25.20 | 28.46 |
| D    | mm   | 305   | 305   | 305   | 305   | 305   | 305   | 305   | 305   | 305   |
|      | inch | 12.01 | 12.01 | 12.01 | 12.01 | 12.01 | 12.01 | 12.01 | 12.01 | 12.01 |

Note: Subject to change without prior notice due to products optimization.

# Gate Valve

Resilient Seated NRS Type-Groove-Groove Ends

Fig. 322GG-300  
322GG-250  
322GG-200



## Valve Standard

Conforms to AWWA C515 / BS5163  
Fusion bonded coating comply with AWWA C550

## Working pressure

200PSI / 250PSI / 300PSI

## Working Temperature

-10°C to 120°C

## Connection Ends

AWWA C 606  
VDS2100/AS2638.2

## Materials List

| Part Name     | Material                 | Specification |
|---------------|--------------------------|---------------|
| Body          | Ductile Iron             | A536 65-45-12 |
| Wedge Disc    | Ductile Iron EPDM Coated |               |
| Disc Nut      | Bronze                   | ASTM B62      |
| Stem          | Stainless Steel          | AISI 304/420  |
| Gasket        | EPDM                     | Commercial    |
| Bonnet        | Ductile Iron             | A536 65-45-12 |
| Thrust Collar | Bronze                   | ASTM C51100   |
| Gland         | Ductile Iron             | A536 65-45-12 |
| Wrench Nut    | Ductile Iron             | A536 65-45-12 |
| Post Plate    | Ductile Iron             | A536 65-45-12 |

## Dimensions(mm/inch):

| SIZE | mm   | 50    | 65    | 80    | 100   | 125   | 150   | 200   | 250   | 300   |
|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|      | inch | 2     | 2 1/2 | 3     | 4     | 5     | 6     | 8     | 10    | 12    |
| L    | mm   | 178   | 191   | 203   | 229   | 254   | 267   | 292   | 330   | 356   |
|      | inch | 7.00  | 7.50  | 8.00  | 9.00  | 10.00 | 10.50 | 11.50 | 13.00 | 14.00 |
| H    | mm   | 279   | 279   | 305   | 324   | 394   | 428   | 537   | 640   | 723   |
|      | inch | 10.98 | 10.98 | 12.01 | 12.76 | 15.51 | 16.85 | 21.14 | 25.20 | 28.46 |
| D    | mm   | 305   | 305   | 305   | 305   | 305   | 305   | 305   | 305   | 305   |
|      | inch | 12.01 | 12.01 | 12.01 | 12.01 | 12.01 | 12.01 | 12.01 | 12.01 | 12.01 |

Note: Subject to change without prior notice due to products optimization.



# Gate Valve

Resilient Seated NRS Type-MJ-MJ Ends

Fig. 322JJ-300  
322JJ-250  
322JJ-200



## Valve Standard

Conforms to AWWA C515 / BS5163  
Fusion bonded coating comply with AWWA C550

## Working pressure

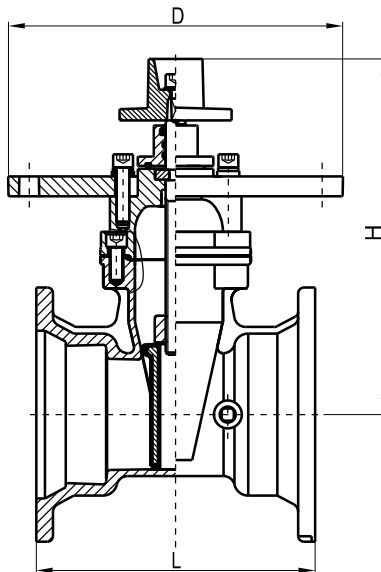
200PSI / 250PSI / 300PSI

## Working Temperature

-10°C to 120°C

## Connection Ends

AWWA C 153 / A21.11



## Materials List

| Part Name     | Material                 | Specification |
|---------------|--------------------------|---------------|
| Body          | Ductile Iron             | A536 65-45-12 |
| Wedge Disc    | Ductile Iron EPDM Coated |               |
| Disc Nut      | Bronze                   | ASTM B62      |
| Stem          | Stainless Steel          | AISI 304/420  |
| Gasket        | EPDM                     | Commercial    |
| Bonnet        | Ductile Iron             | A536 65-45-12 |
| Thrust Collar | Bronze                   | ASTM C51100   |
| Gland         | Ductile Iron             | A536 65-45-12 |
| Wrench Nut    | Ductile Iron             | A536 65-45-12 |
| Post Plate    | Ductile Iron             | A536 65-45-12 |

## Dimensions(mm/inch):

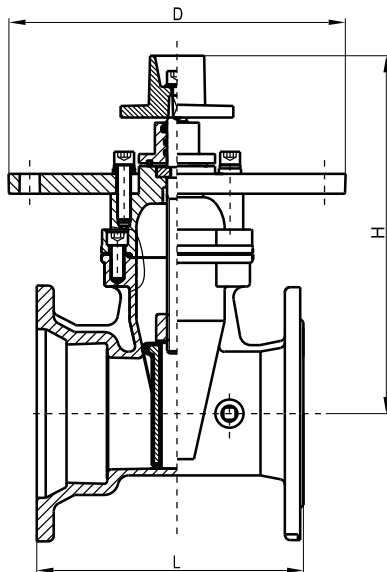
| SIZE | mm   | 80    | 100   | 150   | 200   | 250   | 300   |
|------|------|-------|-------|-------|-------|-------|-------|
|      | inch | 3     | 4     | 6     | 8     | 10    | 12    |
| L    | mm   | 241   | 254   | 292   | 318   | 375   | 378   |
|      | inch | 9.49  | 10.00 | 11.50 | 12.52 | 14.76 | 14.88 |
| H    | mm   | 305   | 324   | 428   | 537   | 640   | 723   |
|      | inch | 12.01 | 12.76 | 16.85 | 21.14 | 25.20 | 28.46 |
| D    | mm   | 305   | 305   | 305   | 305   | 305   | 305   |
|      | inch | 12.01 | 12.01 | 12.01 | 12.01 | 12.01 | 12.01 |

Note: Subject to change without prior notice due to products optimization.

# Gate Valve

Resilient Seated NRS Type-Flanged-MJ Ends

Fig. 322FJ-300  
322FJ-250  
322FJ-200



## Valve Standard

Conforms to AWWA C515 / BS5163  
Fusion bonded coating comply with AWWA C550

## Working pressure

200PSI / 250PSI / 300PSI

## Working Temperature

-10°C to 120°C

## Connection Ends

AWWA C 153 / A21.11  
ANSI B16.1 CLASS125/B16.42 CLASS150  
EN1092-2 PN16

## Materials List

| Part Name     | Material                 | Specification |
|---------------|--------------------------|---------------|
| Body          | Ductile Iron             | A536 65-45-12 |
| Wedge Disc    | Ductile Iron EPDM Coated |               |
| Disc Nut      | Bronze                   | ASTM B62      |
| Stem          | Stainless Steel          | AISI 304/420  |
| Gasket        | EPDM                     | Commercial    |
| Bonnet        | Ductile Iron             | A536 65-45-12 |
| Thrust Collar | Bronze                   | ASTM C51100   |
| Gland         | Ductile Iron             | A536 65-45-12 |
| Wrench Nut    | Ductile Iron             | A536 65-45-12 |
| Post Plate    | Ductile Iron             | A536 65-45-12 |

## Dimensions(mm/inch):

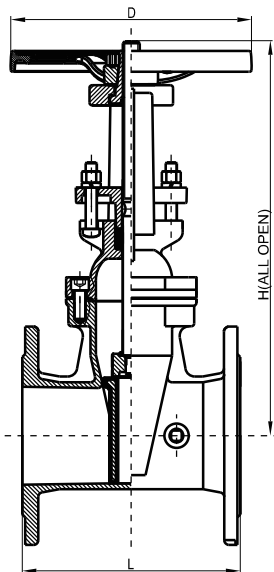
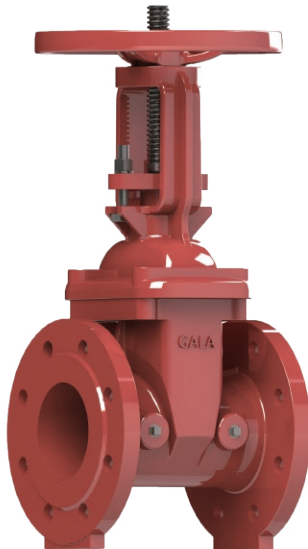
| SIZE | mm   | 80    | 100   | 150   | 200   | 250   | 300   |
|------|------|-------|-------|-------|-------|-------|-------|
|      | inch | 3     | 4     | 6     | 8     | 10    | 12    |
| L    | mm   | 222.0 | 241.5 | 279.5 | 305.0 | 352.5 | 367.0 |
|      | inch | 8.74  | 9.51  | 11.00 | 12.01 | 13.88 | 14.45 |
| H    | mm   | 305   | 324   | 428   | 537   | 640   | 723   |
|      | inch | 12.01 | 12.76 | 16.85 | 21.14 | 25.20 | 28.46 |
| D    | mm   | 305   | 305   | 305   | 305   | 305   | 305   |
|      | inch | 12.01 | 12.01 | 12.01 | 12.01 | 12.01 | 12.01 |

Note: Subject to change without prior notice due to products optimization.

# Gate Valve

Resilient Seated OS&Y Type-Flanged Ends

Fig. 333FF-300  
333FF-250  
333FF-200



## Valve Standard

Conforms to AWWA C515 / BS5163  
Fusion bonded coating comply with AWWA C550

## Working pressure

200PSI / 250PSI / 300PSI

## Working Temperature

-10°C to 120°C

## Connection Ends

ANSI B16.1 CLASS125/B16.42 CLASS150  
EN1092-2 PN16

## Materials List

| Part Name | Material                 | Specification |
|-----------|--------------------------|---------------|
| Body      | Ductile Iron             | A536 65-45-12 |
| Wedge     | Ductile Iron EPDM Coated |               |
| Wedge Nut | Stainless Steel          | AISI304       |
| Stem      | Stainless Steel          | AISI 304/420  |
| Bonnet    | Ductile Iron             | A536 65-45-12 |
| Gasket    | EPDM                     | Commercial    |
| Packing   | PTFE                     | Non-asbestos  |
| Stem Nut  | Bronze                   | ASTM B62      |
| Handwheel | Ductile Iron             | A536 65-45-12 |

## Dimensions(mm/inch):

| SIZE | mm   | 50    | 65    | 80    | 100   | 125   | 150   | 200   | 250   | 300   |
|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|      | inch | 2     | 2 1/2 | 3     | 4     | 5     | 6     | 8     | 10    | 12    |
| L    | mm   | 178.0 | 191.0 | 203.0 | 229.0 | 254.0 | 267.0 | 292.0 | 330.0 | 356.0 |
|      | inch | 7.00  | 7.50  | 8.00  | 9.00  | 10.00 | 10.50 | 11.50 | 13.00 | 14.00 |
| H    | mm   | 411   | 411   | 462   | 514   | 629   | 709   | 922   | 1116  | 1300  |
|      | inch | 16.18 | 16.18 | 18.19 | 20.24 | 24.76 | 27.91 | 36.30 | 43.94 | 51.18 |
| D    | mm   | 183   | 183   | 253   | 253   | 306   | 306   | 355   | 445   | 445   |
|      | inch | 7.20  | 7.20  | 9.96  | 9.96  | 12.05 | 12.05 | 13.98 | 17.52 | 17.52 |

Note: Subject to change without prior notice due to products optimization.

# Gate Valve

Resilient Seated OS&Y Type-Flanged Ends

Fig. 333FF-250(DN350-DN450)  
333FF-200(DN500-DN600)



## Valve Standard

Conforms to AWWA C515 / BS5163

Fusion bonded coating comply with AWWA C550

## Working pressure

200PSI / 250PSI

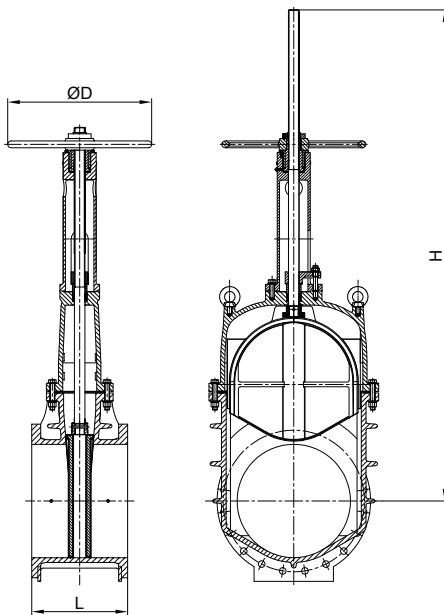
## Working Temperature

-10°C to 120°C

## Connection Ends

ANSI B16.1 CLASS125/B16.42 CLASS150

EN1092-2 PN16



## Materials List

| Part Name | Material                 | Specification |
|-----------|--------------------------|---------------|
| Body      | Ductile Iron             | A536 65-45-12 |
| Wedge     | Ductile Iron EPDM Coated |               |
| Wedge Nut | Stainless Steel          | AISI304       |
| Stem      | Stainless Steel          | AISI 304/420  |
| Bonnet    | Ductile Iron             | A536 65-45-12 |
| Gasket    | EPDM                     | Commercial    |
| Packing   | PTFE                     | Non-asbestos  |
| Stem Nut  | Bronze                   | ASTM B62      |
| Handwheel | Ductile Iron             | A536 65-45-12 |

## Dimensions(mm/inch):

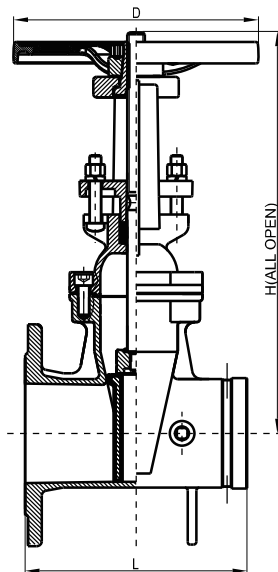
| SIZE | mm   | 350   | 400   | 450   | 500   | 600    |
|------|------|-------|-------|-------|-------|--------|
|      | inch | 14    | 16    | 18    | 20    | 24     |
| L    | mm   | 381   | 406   | 432   | 457   | 508    |
|      | inch | 15.00 | 15.98 | 17.01 | 17.99 | 20.00  |
| H    | mm   | 1577  | 1800  | 2048  | 2297  | 2600   |
|      | inch | 62.09 | 70.87 | 80.63 | 90.43 | 102.36 |
| D    | mm   | 508   | 558   | 610   | 610   | 762    |
|      | inch | 20.00 | 21.97 | 24.02 | 24.02 | 30.00  |

Note: Subject to change without prior notice due to products optimization.

# Gate Valve

Resilient Seated OS&Y Type-Flange-Groove Ends

Fig. 333FG-300  
333FG-250  
333FG-200



## Valve Standard

Conforms to AWWA C515 / BS5163  
Fusion bonded coating comply with AWWA C550

## Working pressure

200PSI / 250PSI / 300PSI

## Working Temperature

-10°C to 120°C

## Connection Ends

ANSI B16.1 CLASS125/B16.42 CLASS150  
EN1092-2 PN16  
AWWA C 606  
VDS2100/AS2638.2

## Materials List

| Part Name | Material                 | Specification |
|-----------|--------------------------|---------------|
| Body      | Ductile Iron             | A536 65-45-12 |
| Wedge     | Ductile Iron EPDM Coated |               |
| Wedge Nut | Stainless Steel          | AISI304       |
| Stem      | Stainless Steel          | AISI 304/420  |
| Bonnet    | Ductile Iron             | A536 65-45-12 |
| Gasket    | EPDM                     | Commercial    |
| Packing   | PTFE                     | Non-asbestos  |
| Stem Nut  | Bronze                   | ASTM B62      |
| Handwheel | Ductile Iron             | A536 65-45-12 |

## Dimensions(mm/inch):

| SIZE | mm   | 50    | 65    | 80    | 100   | 125   | 150   | 200   | 250   | 300   |
|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|      | inch | 2     | 2 1/2 | 3     | 4     | 5     | 6     | 8     | 10    | 12    |
| L    | mm   | 178.0 | 191.0 | 203.0 | 229.0 | 254.0 | 267.0 | 292.0 | 330.0 | 356.0 |
|      | inch | 7.00  | 7.50  | 8.00  | 9.00  | 10.00 | 10.50 | 11.50 | 13.00 | 14.00 |
| H    | mm   | 411   | 411   | 462   | 514   | 629   | 709   | 922   | 1116  | 1300  |
|      | inch | 16.18 | 16.18 | 18.19 | 20.24 | 24.76 | 27.91 | 36.30 | 43.94 | 51.18 |
| D    | mm   | 183   | 183   | 253   | 253   | 306   | 306   | 355   | 445   | 445   |
|      | inch | 7.20  | 7.20  | 9.96  | 9.96  | 12.05 | 12.05 | 13.98 | 17.52 | 17.52 |

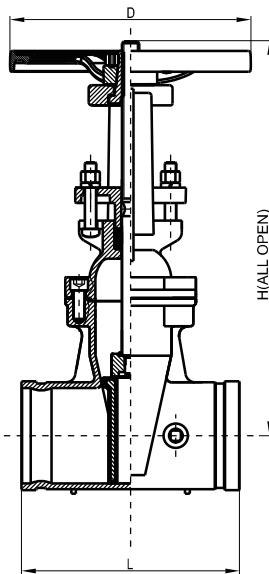
Note: Subject to change without prior notice due to products optimization.



# Gate Valve

Resilient Seated OS&Y Type-Groove-Groove Ends

Fig. 333GG-300  
333GG-250  
333GG-200



## Valve Standard

Conforms to AWWA C515 / BS5163  
Fusion bonded coating comply with AWWA C550

## Working pressure

200PSI / 250PSI / 300PSI

## Working Temperature

-10°C to 120°C

## Connection Ends

AWWA C 606  
VDS2100/AS2638.2

## Materials List

| Part Name | Material                 | Specification |
|-----------|--------------------------|---------------|
| Body      | Ductile Iron             | A536 65-45-12 |
| Wedge     | Ductile Iron EPDM Coated |               |
| Wedge Nut | Stainless Steel          | AISI304       |
| Stem      | Stainless Steel          | AISI 304/420  |
| Bonnet    | Ductile Iron             | A536 65-45-12 |
| Gasket    | EPDM                     | Commercial    |
| Packing   | PTFE                     | Non-asbestos  |
| Stem Nut  | Bronze                   | ASTM B62      |
| Handwheel | Ductile Iron             | A536 65-45-12 |

## Dimensions(mm/inch):

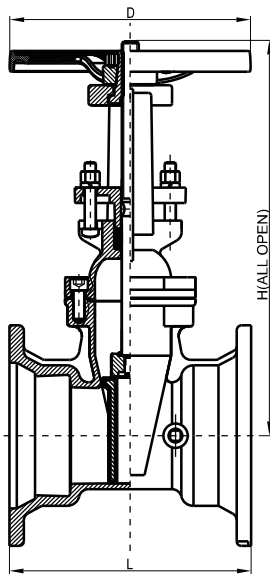
| SIZE | mm   | 50    | 65    | 80    | 100   | 125   | 150   | 200   | 250   | 300   |
|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|      | inch | 2     | 2 1/2 | 3     | 4     | 5     | 6     | 8     | 10    | 12    |
| L    | mm   | 178.0 | 191.0 | 203.0 | 229.0 | 254.0 | 267.0 | 292.0 | 330.0 | 356.0 |
|      | inch | 7.00  | 7.50  | 8.00  | 9.00  | 10.00 | 10.50 | 11.50 | 13.00 | 14.00 |
| H    | mm   | 411   | 411   | 462   | 514   | 629   | 709   | 922   | 1116  | 1300  |
|      | inch | 16.18 | 16.18 | 18.19 | 20.24 | 24.76 | 27.91 | 36.30 | 43.94 | 51.18 |
| D    | mm   | 183   | 183   | 253   | 253   | 306   | 306   | 355   | 445   | 445   |
|      | inch | 7.20  | 7.20  | 9.96  | 9.96  | 12.05 | 12.05 | 13.98 | 17.52 | 17.52 |

Note: Subject to change without prior notice due to products optimization.

# Gate Valve

Resilient Seated OS&Y Type-MJ-MJ Ends

Fig. 333JJ-300  
333JJ-250  
333JJ-200



## Valve Standard

Conforms to AWWA C515 / BS5163  
Fusion bonded coating comply with AWWA C550

## Working pressure

200PSI / 250PSI / 300PSI

## Working Temperature

-10°C to 120°C

## Connection Ends

AWWA C153/A21.11

## Materials List

| Part Name | Material                 | Specification |
|-----------|--------------------------|---------------|
| Body      | Ductile Iron             | A536 65-45-12 |
| Wedge     | Ductile Iron EPDM Coated |               |
| Wedge Nut | Stainless Steel          | AISI304       |
| Stem      | Stainless Steel          | AISI 304/420  |
| Bonnet    | Ductile Iron             | A536 65-45-12 |
| Gasket    | EPDM                     | Commercial    |
| Packing   | PTFE                     | Non-asbestos  |
| Stem Nut  | Bronze                   | ASTM B62      |
| Handwheel | Ductile Iron             | A536 65-45-12 |

## Dimensions(mm/inch):

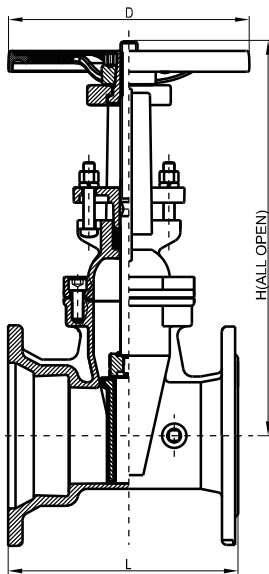
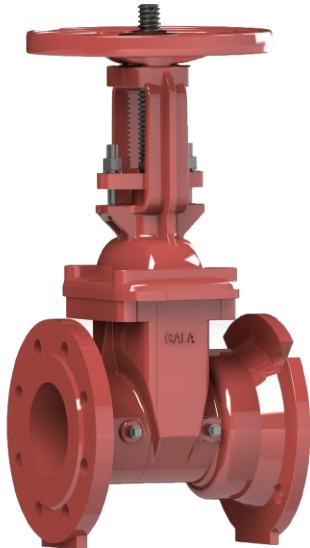
| SIZE | mm   | 80    | 100   | 150   | 200   | 250   | 300   |
|------|------|-------|-------|-------|-------|-------|-------|
|      | inch | 3     | 4     | 6     | 8     | 10    | 12    |
| L    | mm   | 241   | 254   | 292   | 318   | 375   | 378   |
|      | inch | 9.49  | 10.00 | 11.50 | 12.52 | 14.76 | 14.88 |
| H    | mm   | 462   | 514   | 709   | 922   | 1116  | 1300  |
|      | inch | 18.19 | 20.24 | 27.91 | 36.30 | 43.94 | 51.18 |
| D    | mm   | 253   | 253   | 306   | 355   | 445   | 445   |
|      | inch | 9.96  | 9.96  | 12.05 | 13.98 | 17.52 | 17.52 |

Note: Subject to change without prior notice due to products optimization.

# Gate Valve

Resilient Seated OS&Y Type-Flanged-MJ Ends

Fig. 333FJ-300  
333FJ-250  
333FJ-200



## Valve Standard

Conforms to AWWA C515 / BS5163  
Fusion bonded coating comply with AWWA C550

## Working pressure

200PSI / 250PSI / 300PSI

## Working Temperature

-10°C to 120°C

## Connection Ends

AWWA C153/A21.11  
ANSI B16.1 CLASS125/B16.42 CLASS150  
EN1092-2 PN16

## Materials List

| Part Name | Material                 | Specification |
|-----------|--------------------------|---------------|
| Body      | Ductile Iron             | A536 65-45-12 |
| Wedge     | Ductile Iron EPDM Coated |               |
| Wedge Nut | Stainless Steel          | AISI304       |
| Stem      | Stainless Steel          | AISI 304/420  |
| Bonnet    | Ductile Iron             | A536 65-45-12 |
| Gasket    | EPDM                     | Commercial    |
| Packing   | PTFE                     | Non-asbestos  |
| Stem Nut  | Bronze                   | ASTM B62      |
| Handwheel | Ductile Iron             | A536 65-45-12 |

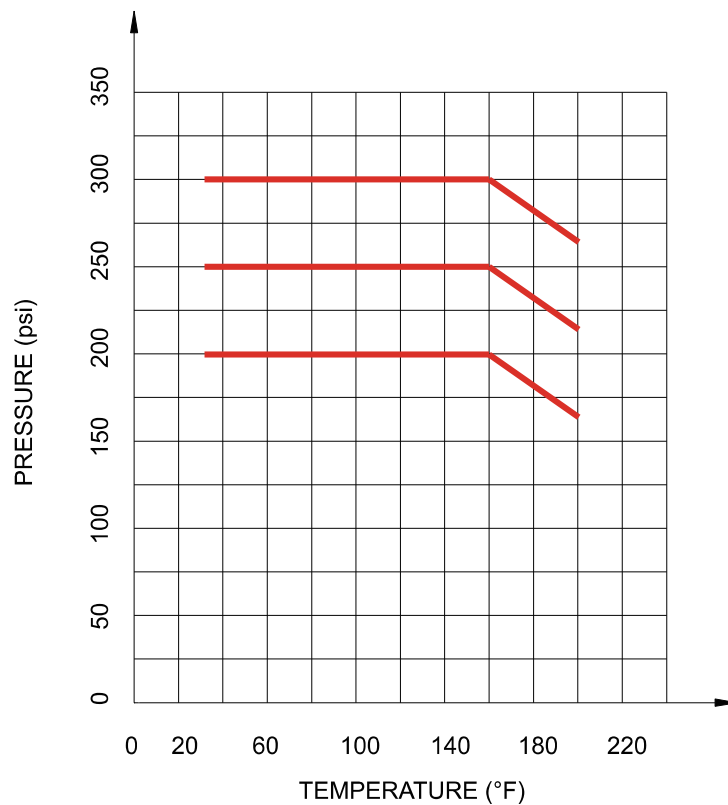
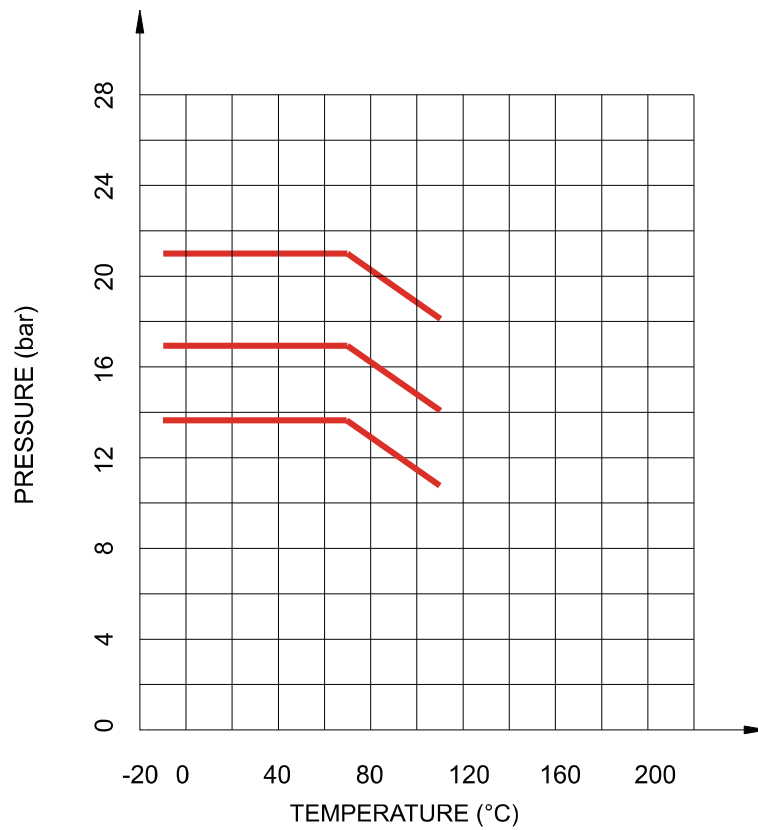
## Dimensions(mm/inch):

| SIZE | mm   | 80    | 100   | 150   | 200   | 250   | 300   |
|------|------|-------|-------|-------|-------|-------|-------|
|      | inch | 3     | 4     | 6     | 8     | 10    | 12    |
| L    | mm   | 222   | 241.5 | 279.5 | 305   | 352.5 | 367   |
|      | inch | 8.74  | 9.51  | 11.00 | 12.01 | 13.88 | 14.45 |
| H    | mm   | 462   | 514   | 709   | 922   | 1116  | 1300  |
|      | inch | 18.19 | 20.24 | 27.91 | 36.30 | 43.94 | 51.18 |
| D    | mm   | 253   | 253   | 306   | 355   | 445   | 445   |
|      | inch | 9.96  | 9.96  | 12.05 | 13.98 | 17.52 | 17.52 |

Note: Subject to change without prior notice due to products optimization.

# Gate Valve

## Pressure-Temperature Chart

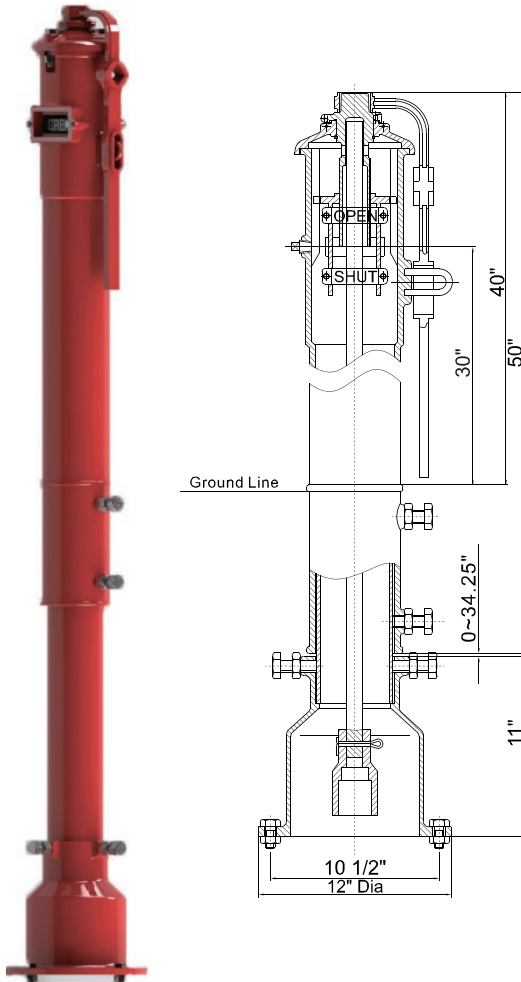


Note: Subject to change without prior notice due to products optimization.

# Indicator Post

Indicator Post - Underground Type

Fig.G388



## Materials List

| Description                           | Material          |
|---------------------------------------|-------------------|
| Locking Wrench                        | ASTM A126B        |
| Operating Nut                         | AISI 304/ASTM B62 |
| Hex Nut Screw                         | ASTM A105         |
| Hex Nut                               | ASTM A105         |
| Snap Ring                             | AISI 066          |
| Taget Carrier Nut                     | AISI 304/ASTM B62 |
| Taget                                 | ASTM B108         |
| Hex Cap Screw                         | ASTM A105         |
| Window Glass                          | LEXAN-UN          |
| Window Glass Gasket                   | PTFE              |
| Hex Cap Screw                         | ASTM A105         |
| Hex Nut                               | ASTM A105         |
| Body                                  | ASTM A536         |
| Hex Cap Screw                         | ASTM A105         |
| Hex Nut                               | ASTM A105         |
| Base Flange                           | ASTM A126B        |
| Hex Cap Screw                         | ASTM A105         |
| Hex Nut                               | ASTM A105         |
| Crane Coupling                        | ASTM A536         |
| Cotter Pin                            | AISI 304          |
| Stand Pipe                            | ASTM A53          |
| Stem                                  | AISI 1045         |
| Plug                                  | AISI 304          |
| Cover                                 | ASTM A126B        |
| Cross Recessed Countersunk Head Screw | AISI 304          |
| Locking Nose                          | ASTM 307 B        |

## Valve Standard

Fusion bonded coating comply with AWWA C550

## Field Adjustment:

1. Remove the top section from the top of the Indicator Post assembly.
2. Cut the required length off the bottom of the Standpipe for the Ground Line to match up with Standpipe Ground Line mark.
3. Set the "OPEN" and "SHUT" targets for the appropriate valve size.
4. Reattach the Top Section to the top of the Indicator Post assembly.
5. Design and dimensions are subject to change without notice

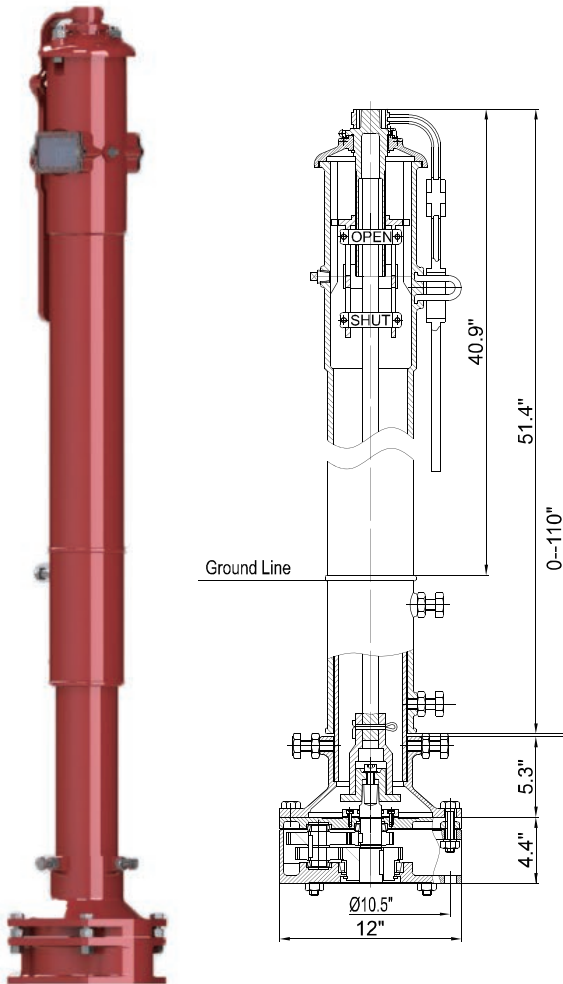
Note: Subject to change without prior notice due to products optimization.



# Indicator Post

Indicator Post - Underground Type

Fig.G322



## Materials List

| Description           | Material           |
|-----------------------|--------------------|
| Locking Wrench        | ASTMA536           |
| Operating Nut         |                    |
| Bolt                  | ASTMA105           |
| Nut                   | ASTMA105           |
| Flat Washer           | ASTMA105           |
| Shap Ring             | AISI 606           |
| Taget Carrier Nut     | ASTM B62           |
| Target                | ASTM B108          |
| Bolt                  | ASTMA105           |
| Flat Washer           | ASTMA105           |
| Window Gland          | ASTMA307B          |
| Window Glass          | LEXAN-UN STABILIZE |
| Gasket                | EPDM               |
| Bolt                  | ASTMA105           |
| Spring Washer         | ASTMA105           |
| Nut                   | ASTMA105           |
| Body                  | ASTMA536           |
| Bolt                  | ASTMA105           |
| Nut                   | ASTMA105           |
| Base Flange           | ASTMA126B          |
| Bolt                  | ASTMA105           |
| Nut                   | ASTMA105           |
| Crane Coupling        | ASTMA536           |
| Cotter Pin            | AISI 304           |
| Stand Pipe            | ASTM A536          |
| Stem 1" Square        | AISI 1045          |
| Plug                  | AISI 304           |
| Top Cover             | ASTMA126B          |
| Screw                 | AISI 304           |
| Lock Nose             | ASTMA307B          |
| Reducer               | PARTS              |
| Bolt                  | ASTMA105           |
| Nut                   | ASTMA105           |
| Wrench Nut            | ASTMA536           |
| Washer                | AISI 304           |
| Hex. Socket Cap Screw | AISI 304           |
| Spring Washer         | AISI 304           |

## Valve Standard

Fusion bonded coating comply with AWWA C550

## Field Adjustment:

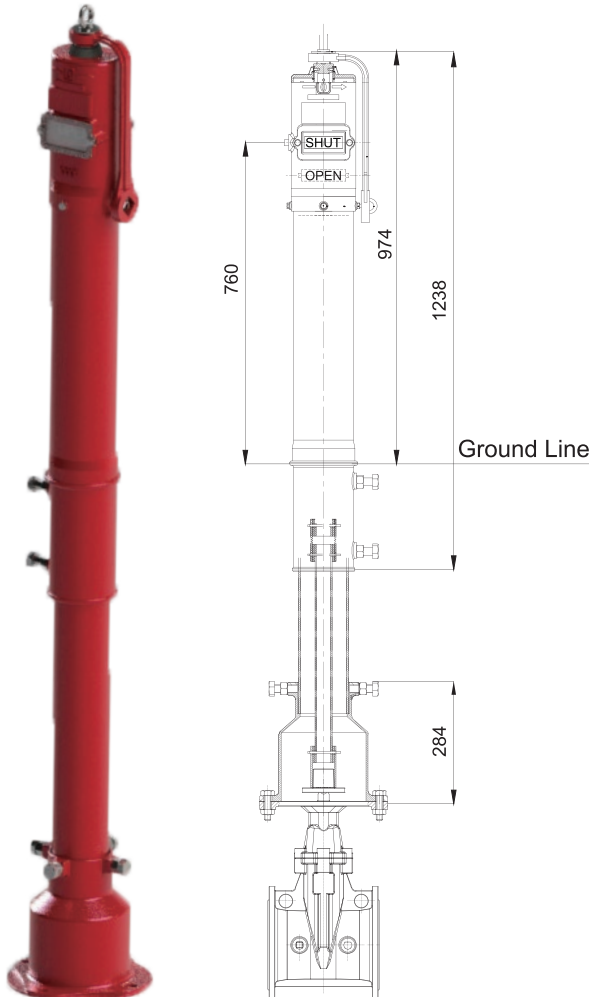
1. Remove the top section from the top of the Indicator Post assembly.
2. Cut the required length off the bottom of the Standpipe for the Ground Line to match up with Standpipe Ground Line mark.
3. Set the "OPEN" and "SHUT" targets for the appropriate valve size.
4. Reattach the Top Section to the top of the Indicator Post assembly.
5. Design and dimensions are subject to change without notice.

Note: Subject to change without prior notice due to products optimization.

# Indicator Post

Underground Type

Fig.G345



## Materials List

| Description         | Material           |
|---------------------|--------------------|
| Hex Nut             | STEEL/SS304        |
| Hex Bolt            | STEEL/SS304        |
| Screw               | STEEL/SS304        |
| Plug                | ASTM SS304         |
| Body                | STEEL/SS304        |
| Pedestal            | ASTM A536 65-45-12 |
| Square Tube         | AISI 1045          |
| Cotter              | WCB/SS304          |
| Hoisting Ring       | AISI 1045          |
| Square Tube         | AISI 1045          |
| Support Barrel      | ASTM A53           |
| Lower Barrel-Second | ASTM A536 65-45-12 |
| Lower Barrel-First  | ASTM A536 65-45-12 |
| Shut Indicator      | ASTM 2024          |
| Open Indicator      | ASTM 2024          |
| Seal Ring           | EPDM               |
| Plat Washer         | STEEL/SS304        |
| Hex Bolt            | STEEL/SS304        |
| Window              | LEXAN-UN SATBLIZED |
| Window Cover        | ASTM A307B         |
| Body                | ASTM A536 65-45-12 |
| Operating Screw     | ASTM SS304         |
| Pin                 | STEEL/SS304        |
| Retainer Ring       | 65Mn               |
| Dust Cap            | EPDM               |
| Operating Nut       | ASTM A536 65-45-12 |
| Wrench              | ASTM A536 65-45-12 |

## Field Adjustment:

- 1.Remove the top section from the top of the indicator post assembly.
- 2.Cut the required length off the bottom of the Standpipe for the Ground Line to match up with Standpipe Ground Line mark.
- 3.Set the"OPEN" and "SHUT" targets for the apporprate valve size.
- 4.Reattach the Top Section to the top of the indicator Post assembly.

## Dimensions(mm):

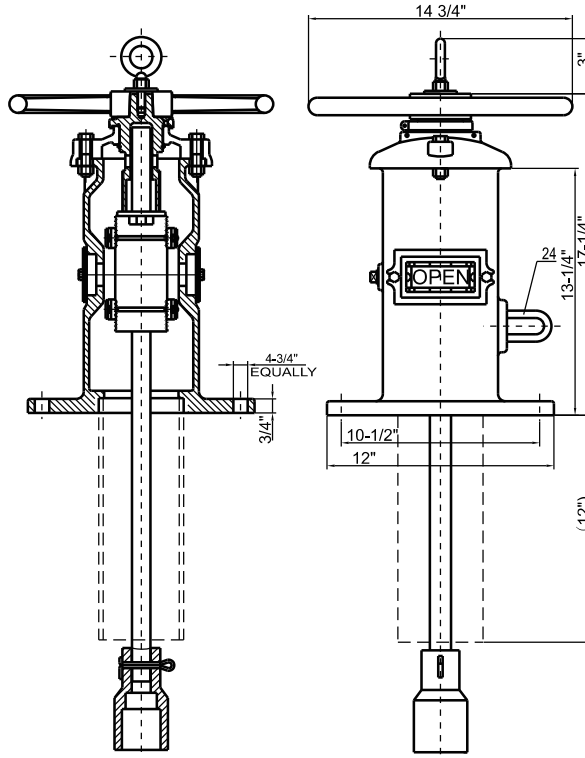
| SZE            | 2"   | 2½"  | 3"   | 4"   | 5"   | 6"   | 8"   | 10"  | 12"  |
|----------------|------|------|------|------|------|------|------|------|------|
| Min.Bury Depth | 623  | 623  | 643  | 667  | 728  | 762  | 847  | 942  | 1028 |
| Max.Bury Depth | 1493 | 1493 | 1513 | 1537 | 1598 | 1632 | 1717 | 1812 | 1898 |
| H              | 173  | 173  | 193  | 217  | 278  | 312  | 397  | 492  | 578  |

Note: Subject to change without prior notice due to products optimization.

# Indicator Post

Indicator Post - Wall Type

Fig.W388



## Valve Standard:

Fusion bonded coating comply with AWWA C550.

## Field Adjustment:

1. Remove the top section from the top of the Indicator Post assembly.
2. Set the "OPEN" and "SHUT" targets for the appropriate valves size.
3. Reattach the Top Section to the top of the Indicator Post assembly
4. Design and materials are subject to change without notice.

## Materials List

| Description        | Material          |
|--------------------|-------------------|
| Lifting Eyey Bolt  | ASTM A105         |
| Hex Nut            | ASTM A105         |
| Washer             | ASTM A105         |
| Hand Wheel         | ASTM A536         |
| Operating Nut      | ASTM B62/AISI 304 |
| Hex Cap Screw      | ASTM A105         |
| Hex Nut            | ASTM A105         |
| Snap Ring          | AISI 066          |
| Target Carrier Nut | ASTM B62/AISI 304 |
| Target             | ASTM B108         |
| Hex Cap Screw      | ASTM A105         |
| Window Glass       | LEXAN-UN          |

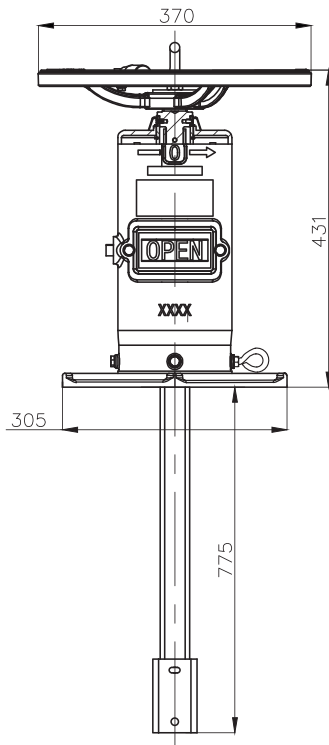
| Description                           | Material   |
|---------------------------------------|------------|
| Window Glass Gasket                   | PTFE       |
| Hex Cap Screw                         | ASTM A105  |
| Hex Nut                               | ASTM A105  |
| Body                                  | ASTM A536  |
| Stand Pipe                            | ASTM A53   |
| Stem                                  | AISI 1045  |
| Cotter Pin                            | AISI 304   |
| Crane Coupling                        | ASTM A536  |
| Plug                                  | AISI 304   |
| Cover                                 | ASTM A126B |
| Cross Recessed Countersunk Head Screw | AISI 304   |
| Locking Nose                          | ASTM A307B |

Note: Subject to change without prior notice due to products optimization.

# Indicator Post

Wall Type

Fig.W345



## Materials List

| Description     | Material          |
|-----------------|-------------------|
| Hoisting Ring   | ASTM A105         |
| Hex Nut         | ASTM A105         |
| Hand Wheel      | ASTM A536         |
| Gasket          | ASTM SS304        |
| Operating Nut   | ASTM A536         |
| Dust Cap        | EPDM              |
| Rethiner Ring   | 65Mn              |
| Pin             | STEEL/SS304       |
| Operating Screw | ASTM SS304        |
| Body            | ASTM A536         |
| Window Cover    | ASTM A307B        |
| Window          | EXAN-UN SATBLIZED |
| Hex Bolt        | STEEL/SS304       |
| Plat Washer     | STEEL/SS304       |
| Seal Ring       | EPDM              |
| Open Indicator  | ASTM 2024         |
| Shut Indicator  | ASTM 2024         |
| Flange          | ASTM A536         |
| Square Tube     | AISI 1045         |
| Handle          | Parts             |
| Screw           | STEEL/SS304       |
| Plug            | ASTM SS304        |
| Cotter          | STEEL/SS304       |
| Plat Washer     | STEEL/SS304       |
| Screw           | STEEL/SS304       |
| Hex Nut         | STEEL/SS304       |

## Field Adjustment:

- 1.Remove the top section from the top of the indicator post assembly.
- 2.Set the“OPEN” and “SHUT” targets for the apporprate valve size .
- 3.Reattach the Top Section to the top of the indicator Post assembly.

Note: Subject to change without prior notice due to products optimization.

# Swing Check Valve

Resilient Seated Flanged Ends

Fig. 55FF-300  
55FF-250  
55FF-200



## Valve Standard

Conforms to AWWA C508, Clear Waterway  
Fusion bonded coating comply with AWWA C550

## Working pressure

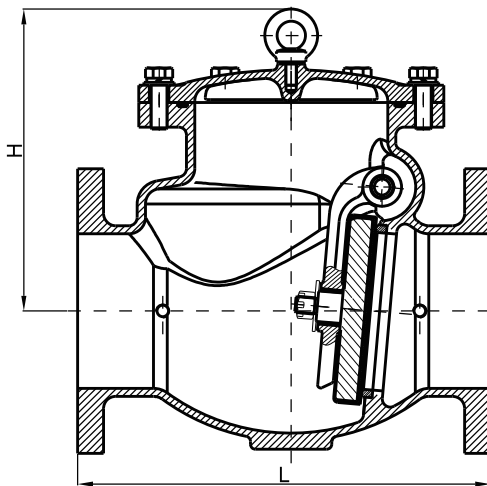
200PSI / 250PSI / 300PSI

## Working Temperature

-10°C to 110°C

## Flanged Ends

ANSI B16.1CLASS125/B16.42 CLASS150/B16.1CLASS250  
EN1092-2 PN10/PN16/PN25  
BS10 Table D/Table E



## Materials List

| Part Name   | Material        | Specification     |
|-------------|-----------------|-------------------|
| Body        | Ductile Iron    | ASTMA536 65-45-12 |
| Cover       | Ductile Iron    | ASTMA536 65-45-12 |
| Clapper     | Carbon Steel    | A36+SS304+EPDM    |
| Clapper Arm | Ductile Iron    | ASTMA536 65-45-12 |
| Hinge Pin   | Stainless Steel | AISI 304          |
| Seat        | Bronze          | ASTM C84400       |

## Dimensions(mm/inch)

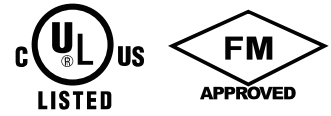
| SIZE | mm   | 50   | 65   | 80    | 100   | 125   | 150   | 200   | 250   | 300   |
|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
|      | inch | 2    | 2½   | 3     | 4     | 5     | 6     | 8     | 10    | 12    |
| L    | mm   | 203  | 254  | 279   | 330   | 356   | 406   | 495   | 559   | 660   |
|      | inch | 8    | 10   | 11    | 13    | 14    | 16    | 19.5  | 22    | 26    |
| H    | mm   | 117  | 128  | 132.5 | 222.5 | 290   | 297   | 365   | 417.5 | 453   |
|      | inch | 4.61 | 5.04 | 5.22  | 8.76  | 11.42 | 11.69 | 14.37 | 16.44 | 17.83 |

Note: Subject to change without prior notice due to products optimization.

# Swing Check Valve

Resilient Seated Grooved Ends

Fig. 50GG-365  
50GG-300  
50GG-250  
50GG-200



## Valve Standard

Fusion bonded coating comply with AWWA C550

## Features

Can be installed horizontally or vertically (with upward flow)  
Convenient to install and maintain  
Low pressure drop

## Working pressure

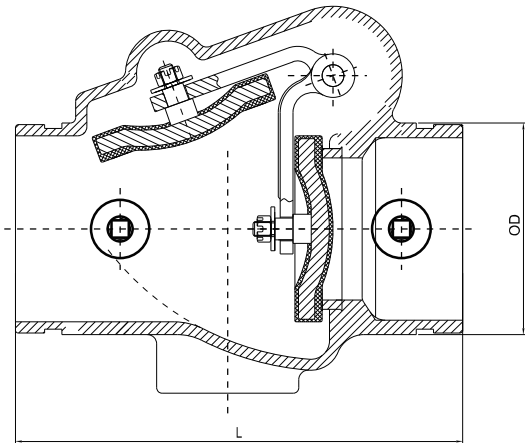
200PSI / 250PSI / 300PSI / 365PSI

## Working Temperature

0°C to 80°C

## Connection Ends

AWWA C 606  
VDS2100



## Materials List

| Part Name               | Material        | Specification      |
|-------------------------|-----------------|--------------------|
| Body                    | Ductile Iron    | ASTM A536 65-45-12 |
| Seat                    | Bronze          | ASTM B62 C83600    |
| Clapper                 | Q235+SS304+EPDM |                    |
| Clapper Arm             | Stainless Steel | ASTM A351 CF8      |
| Washer                  | Stainless Steel | AISI 304           |
| Hexagonal Slot Thin Nut | Stainless Steel | AISI 304           |
| Split Pin               | Stainless Steel | AISI 304           |

## Dimensions(mm/inch)

| SIZE | mm   | 50   | 65        | 80   | 100   | 125         | 150         | 200   | 250 | 300    |
|------|------|------|-----------|------|-------|-------------|-------------|-------|-----|--------|
|      | inch | 2    | 2½        | 3    | 4     | 5           | 6           | 8     | 10  | 12     |
| L    | mm   | 169  | 203       | 213  | 245   | 267         | 292         | 356   | 432 | 495    |
| OD   | mm   | 60.3 | 73.0/76.1 | 88.9 | 114.3 | 139.7/141.3 | 165.1/168.3 | 219.1 | 273 | 323.85 |

Note: Subject to change without prior notice due to products optimization.



# Swing Check Valve

Resilient Seated Grooved Ends Riser (Shotgun)

Fig. 50GGP-365  
50GGP-300  
50GGP-250  
50GGP-200



## Valve Standard

Fusion bonded coating comply with AWWA C550

## Features

Can be installed horizontally or vertically (with upward flow)  
Convenient to install and maintain  
Low pressure drop

## Working pressure

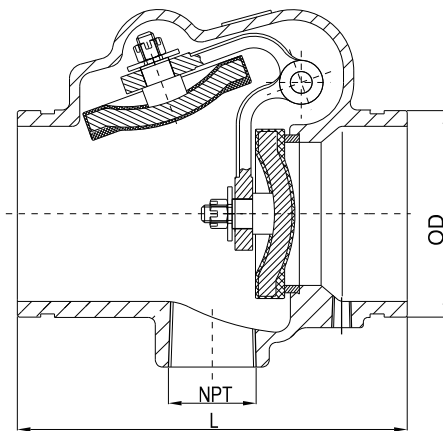
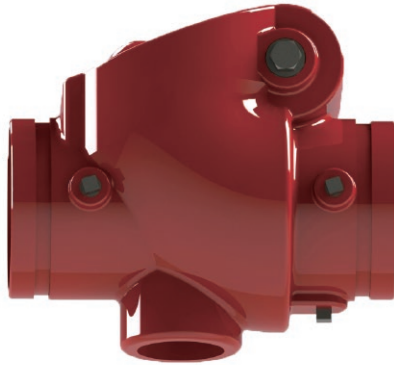
200PSI / 250PSI / 300PSI / 365PSI

## Working Temperature

0°C to 80°C

## Connection Ends

AWWA C 606  
VDS2100



## Materials List

| Part Name               | Material        | Specification      |
|-------------------------|-----------------|--------------------|
| Body                    | Ductile Iron    | ASTM A536 65-45-12 |
| Seat                    | Bronze          | ASTM B62 C83600    |
| Clapper                 | Q235+SS304+EPDM |                    |
| Clapper Arm             | Stainless Steel | ASTM A351 CF8      |
| Washer                  | Stainless Steel | AISI 304           |
| Hexagonal Slot Thin Nut | Stainless Steel | AISI 304           |
| Split Pin               | Stainless Steel | AISI 304           |

## Dimensions(mm/inch)

| SIZE | mm   | 50   | 65        | 80   | 100   | 125         | 150         | 200   | 250 | 300    |
|------|------|------|-----------|------|-------|-------------|-------------|-------|-----|--------|
|      | inch | 2    | 2½        | 3    | 4     | 5           | 6           | 8     | 10  | 12     |
| L    | mm   | 169  | 203       | 213  | 245   | 267         | 292         | 356   | 432 | 495    |
| OD   | mm   | 60.3 | 73.0/76.1 | 88.9 | 114.3 | 139.7/141.3 | 165.1/168.3 | 219.1 | 273 | 323.85 |
| NPT  | inch | 1    | 1¼        | 1¼   | 2     | 2           | 2           | 2     | 2   | 2      |

Note: Subject to change without prior notice due to products optimization.

# Check Valve

Resilient Seated Wafer Ends

Fig. 50W-300  
50W-250  
50W-200  
50W-175



**Valve Standard**  
Conforms to API 594

**Working Pressure**  
175 PSI / 200PSI / 250PSI / 300PSI

**Working Temperature**  
-20°C to 110°C

**Flanged Ends**  
ASME B16.1 Class125  
BS EN 1092-2 PN10/16  
JISB2239 10K (Only for DN50-DN80/2"-3")  
AS2129 TableD/TableE (Only for DN100-DN300/4"-12")

## Materials List

| Part      | Material        | ASTM Spec.    |
|-----------|-----------------|---------------|
| Body      | Ductile Iron    | A536 65-45-12 |
|           | Aluminum Bronze | B584 C95400   |
| Disc      | Stainless Steel | A351 CF8      |
|           | Stainless Steel | A351 CF8M     |
| Stem      | Stainless Steel | AISI 304      |
|           | Stainless Steel | AISI 316      |
| Seat-Ring | EPDM            | Commercial    |
| Spring    | Stainless Steel | AISI 304      |
|           | Stainless Steel | AISI 316      |

## Note:

Lifting ring for DN200 (8") and above

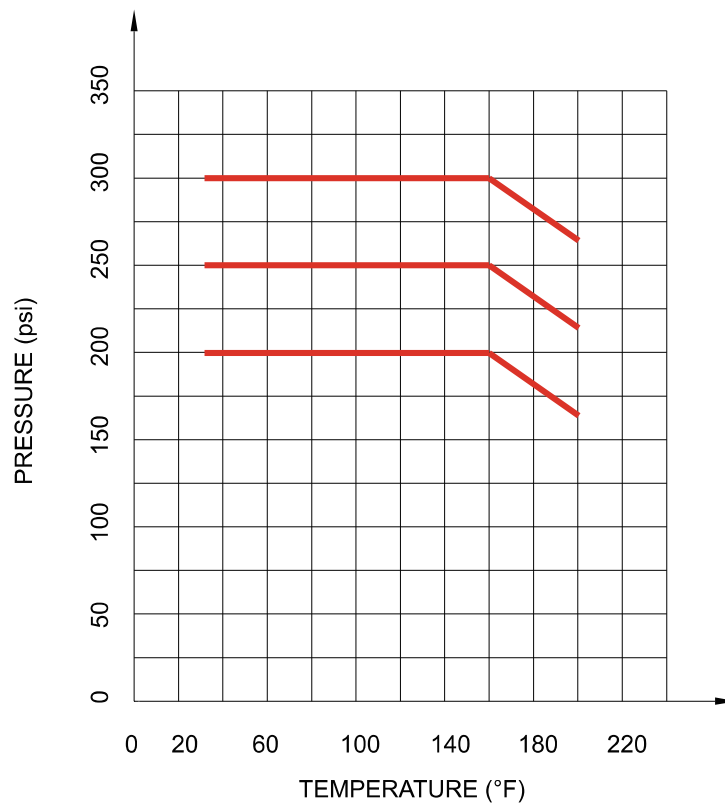
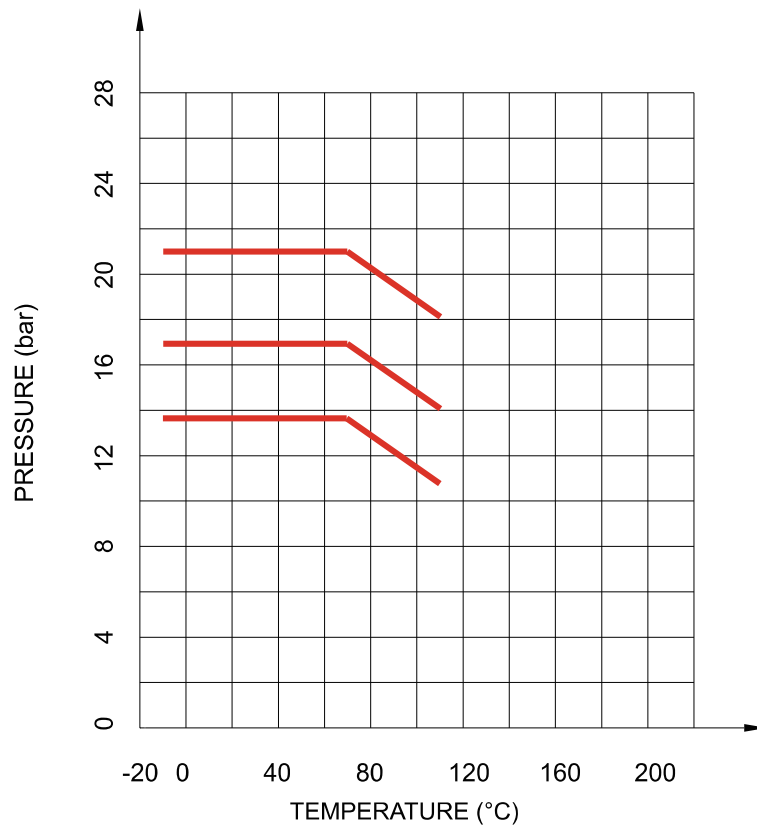
## Dimensions(mm/inch)

| SIZE | mm   | 50   | 65   | 80   | 100  | 125  | 150  | 200  | 250  | 300  |
|------|------|------|------|------|------|------|------|------|------|------|
|      | inch | 2    | 2½   | 3    | 4    | 5    | 6    | 8    | 10   | 12   |
| H    | mm   | 54   | 60   | 67   | 67   | 83   | 95   | 127  | 140  | 181  |
|      | inch | 2.13 | 2.36 | 2.64 | 2.64 | 3.27 | 3.74 | 5.00 | 5.51 | 7.13 |

Note: Subject to change without prior notice due to products optimization.

# Check Valve

## Pressure-Temperature Chart

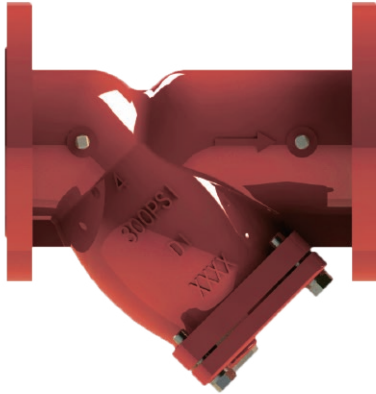


Note: Subject to change without prior notice due to products optimization.

# Y Strainer

Flange-Flange Ends

Fig. 70FF-300  
70FF-250  
70FF-200



## Valve Standard

Fusion bonded coating comply with AWWA C550

## Working pressure

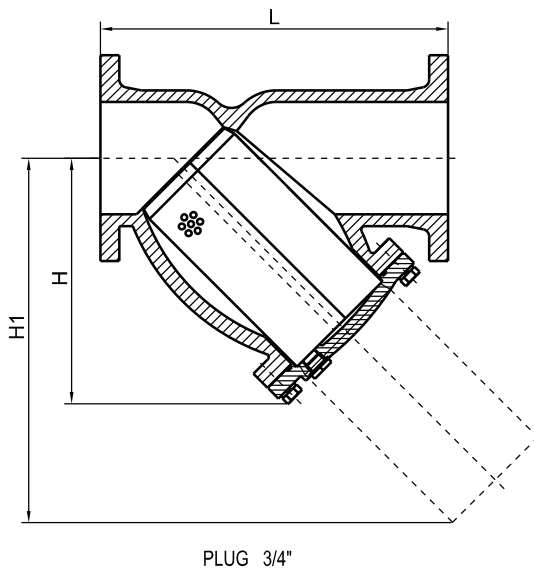
200PSI / 250PSI / 300PSI

## Working Temperature

-10°C to 120°C

## Flanged Ends

ANSI B16.1CLASS125/B16.42 CLASS150/B16.1CLASS250  
EN1092-2 PN10/PN16/PN25  
BS10 Table D/Table E



## Materials List

| Component | Material        | Specification |
|-----------|-----------------|---------------|
| Body      | Ductile Iron    | A536 65-45-12 |
| Cover     | Ductile Iron    | A536 65-45-12 |
| Screen    | Stainless Steel | AISI 304      |
| Gasket    | EPDM            |               |
| Plug      | Carbon Steel    |               |

## Dimensions(mm/inch)

| SIZE | mm   | 50   | 65   | 80    | 100   | 125   | 150   | 200   | 250   | 300   |
|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
|      | inch | 2    | 2½   | 3     | 4     | 5     | 6     | 8     | 10    | 12    |
| L    | mm   | 203  | 254  | 260   | 308   | 398   | 472   | 550   | 654   | 762   |
|      | inch | 7.99 | 10   | 10.24 | 12.13 | 15.67 | 18.58 | 21.65 | 25.75 | 30    |
| H    | mm   | 132  | 158  | 175   | 202   | 290   | 334   | 391   | 460   | 590   |
|      | inch | 5.20 | 6.22 | 6.89  | 7.99  | 11.42 | 13.15 | 15.39 | 18.11 | 23.23 |
| H1   | mm   | 195  | 240  | 270   | 320   | 425   | 495   | 570   | 700   | 840   |
|      | inch | 7.68 | 9.45 | 10.63 | 12.60 | 16.73 | 19.49 | 22.44 | 27.56 | 33.07 |

Note: Subject to change without prior notice due to products optimization.

# Y Strainer

Flange-Groove Ends

Fig. 70FG-300  
70FG-250  
70FG-200



## Valve Standard

Fusion bonded coating comply with AWWA C550

## Working pressure

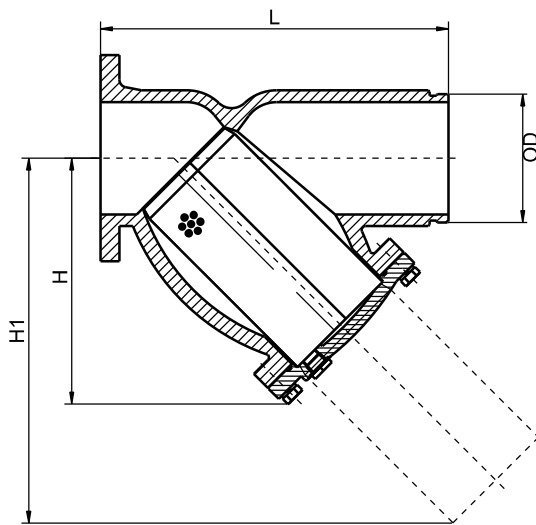
200PSI / 250PSI / 300PSI

## Working Temperature

-10°C to 120°C

## Flanged Ends

ANSI B16.1CLASS125/B16.42 CLASS150/B16.1CLASS250  
EN1092-2 PN10/PN16/PN25  
BS10 Table D/Table E  
AWWA C 606  
VDS2100



PLUG 3/4"

## Dimensions(mm/inch)

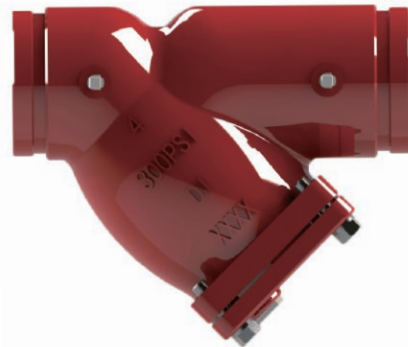
| SIZE | mm   | 50   | 65        | 80    | 100   | 125         | 150         | 200   | 250   | 300   |
|------|------|------|-----------|-------|-------|-------------|-------------|-------|-------|-------|
|      | inch | 2    | 2½        | 3     | 4     | 5           | 6           | 8     | 10    | 12    |
| L    | mm   | 203  | 254       | 260   | 308   | 398         | 472         | 550   | 654   | 762   |
|      | inch | 8    | 10        | 10.24 | 12.13 | 15.67       | 18.58       | 21.65 | 25.75 | 30    |
| H    | mm   | 130  | 158       | 175   | 202   | 290         | 334         | 391   | 460   | 590   |
|      | inch | 5.12 | 6.22      | 6.89  | 7.95  | 11.42       | 13.15       | 15.39 | 18.11 | 23.23 |
| H1   | mm   | 195  | 240       | 270   | 320   | 425         | 495         | 570   | 700   | 840   |
|      | inch | 7.68 | 9.45      | 10.63 | 12.60 | 16.73       | 19.49       | 22.44 | 27.56 | 33.07 |
| OD   | mm   | 60.3 | 73.0/76.1 | 88.9  | 114.3 | 139.7/141.3 | 165.1/168.3 | 219.1 | 273   | 323.9 |
|      | inch | 2.37 | 2.87/3    | 3.50  | 4.5   | 5.5/5.56    | 6.5/6.63    | 8.63  | 10.75 | 12.75 |

Note: Subject to change without prior notice due to products optimization.

# Y Strainer

Groove-Groove Ends

Fig. 70GG-300  
70GG-250  
70GG-200



## Valve Standard

Fusion bonded coating comply with AWWA C550

## Working pressure

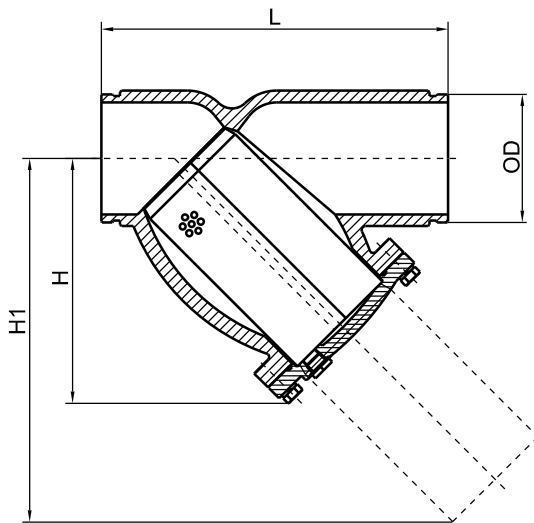
200PSI / 250PSI / 300PSI

## Working Temperature

-10°C to 120°C

## Flanged Ends

AWWA C 606  
VDS2100



PLUG 3/4"

## Materials List

| Component | Material        | Specification |
|-----------|-----------------|---------------|
| Body      | Ductile Iron    | A536 65-45-12 |
| Cover     | Ductile Iron    | A536 65-45-12 |
| Screen    | Stainless Steel | AISI 304      |
| Gasket    | EPDM            |               |
| Plug      | Carbon Steel    |               |

## Dimensions(mm/inch)

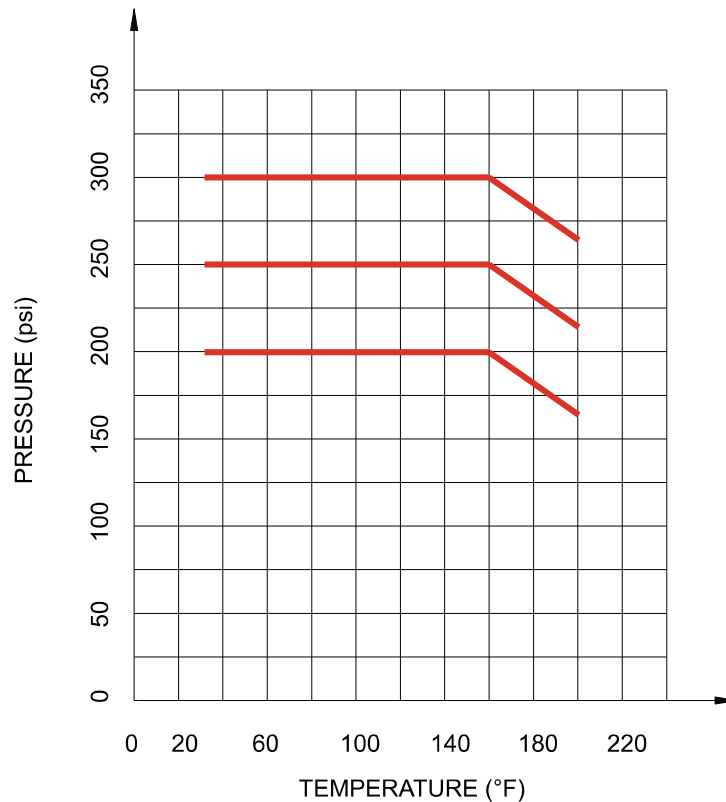
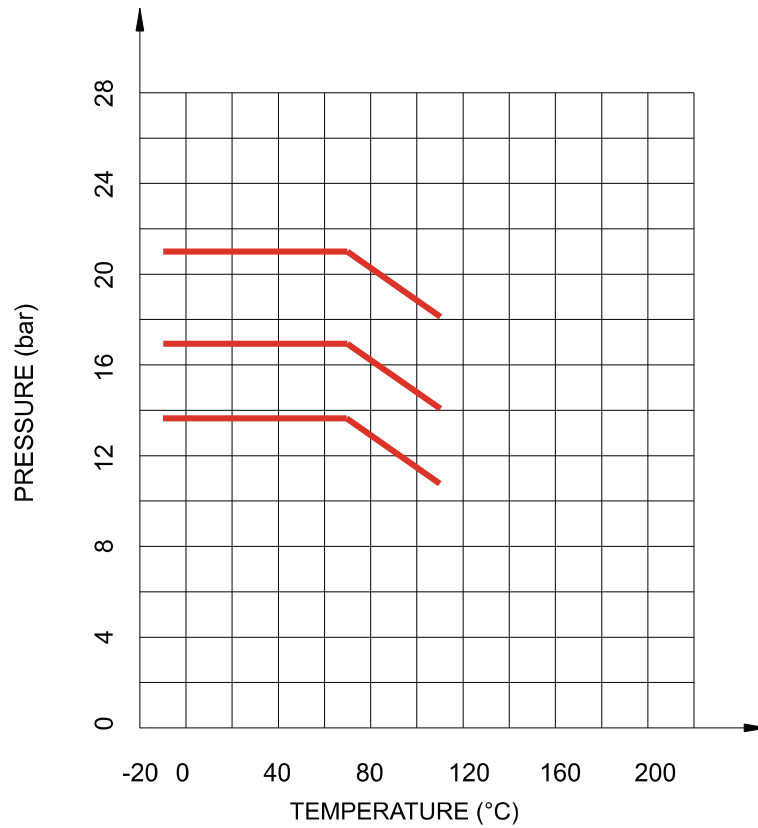
| SIZE | mm   | 50   | 65        | 80    | 100   | 125         | 150         | 200   | 250   | 300   |
|------|------|------|-----------|-------|-------|-------------|-------------|-------|-------|-------|
|      | inch | 2    | 2½        | 3     | 4     | 5           | 6           | 8     | 10    | 12    |
| L    | mm   | 230  | 254       | 272.4 | 308   | 398         | 472         | 550   | 654   | 762   |
|      | inch | 9.06 | 10        | 10.71 | 12.13 | 15.67       | 18.58       | 21.65 | 25.75 | 30    |
| H    | mm   | 130  | 158       | 175   | 202   | 290         | 334         | 391   | 460   | 590   |
|      | inch | 5.12 | 6.22      | 6.89  | 8     | 11.42       | 13.15       | 15.39 | 18.11 | 23.23 |
| H1   | mm   | 195  | 240       | 270   | 320   | 425         | 495         | 570   | 700   | 840   |
|      | inch | 7.68 | 9.45      | 10.63 | 12.60 | 16.73       | 19.49       | 22.44 | 27.56 | 33.07 |
| OD   | mm   | 60.3 | 73.0/76.1 | 88.9  | 114.3 | 139.7/141.3 | 165.1/168.3 | 219.1 | 273   | 323.9 |
|      | inch | 2.37 | 2.87/3    | 3.50  | 4.5   | 5.5/5.56    | 6.5/6.63    | 8.63  | 10.75 | 12.75 |

Note: Subject to change without prior notice due to products optimization.



# Y Strainer

## Pressure-Temperature Chart



Note: Subject to change without prior notice due to products optimization.

# Butterfly Valve

Wafer Butterfly Valve With Signal Gear Box

Fig.25W-300  
25W-250  
25W-200



## Valve Standard

Fusion bonded coating comply with FM1112,UL1091

## Face-to-face Standard

ISO5752

## Test Standard

FM1112,UL1091

## Working pressure

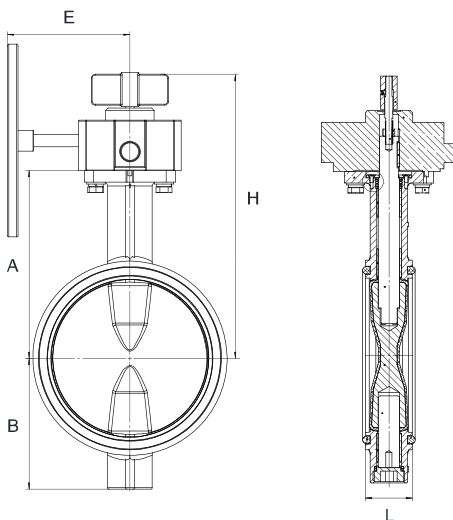
200PSI / 250PSI / 300PSI

## Working Temperature

-10°C to 120°C

## Flanged Ends

BS EN1092-2 / ASME B16.42 / Class150



## Materials List

| Component          | Material                                    | Specification     |
|--------------------|---------------------------------------------|-------------------|
| Body               | Ductile Iron                                | ASTM A536         |
| Disc               | Ductile Iron EPDM Coated                    | ASTM A536+EPDM    |
| Upper&Lower Stems  | Stainless Steel                             | AISI 410          |
| O-Ring             | EPDM                                        |                   |
| Bushing            | Bronze                                      | ASTM B150M C63000 |
| Gland              | Galvanized Carbon Steel Surface Passivation |                   |
| Washer             | Galvanized Carbon Steel Surface Passivation |                   |
| Plug               | Galvanized Carbon Steel Surface Passivation |                   |
| Gear Box Housing   | Ductile Iron                                | ASTM A536         |
| Gear Box Fasteners | Galvanized Carbon Steel Surface Passivation |                   |

## Dimensions(mm/inch)

| SIZE | mm   | 50    | 65    | 80    | 100 | 125 | 150   | 200   | 250 | 300 |
|------|------|-------|-------|-------|-----|-----|-------|-------|-----|-----|
|      | inch | 2     | 2½    | 3     | 4   | 5   | 6     | 8     | 10  | 12  |
| A    |      | 140.5 | 152.5 | 157.5 | 176 | 191 | 202.5 | 243.5 | 273 | 311 |
| B    |      | 72    | 78    | 85    | 105 | 128 | 140   | 170   | 205 | 258 |
| L    |      | 43    | 46    | 46    | 52  | 56  | 56    | 62    | 68  | 78  |
| E    |      | 125   | 125   | 125   | 125 | 140 | 140   | 159   | 159 | 228 |
| H    |      | 258.6 | 270.6 | 275.6 | 294 | 312 | 322.6 | 345.5 | 401 | 437 |

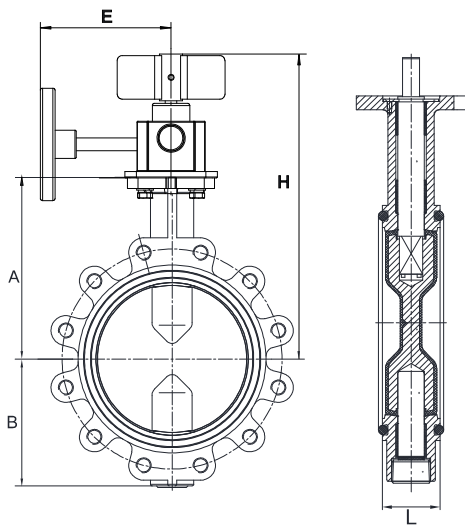
Factory installed UL listed double Tamper Switches For indoor and Outdoor Use.

Note: Subject to change without prior notice due to products optimization.

# Butterfly Valve

Lugged Butterfly Valve With Signal Gear Box

Fig.25L-200  
25L-250  
25L-300



## Valve Standard

Fusion bonded coating comply with FM1112, UL1091

## Face-to-face Standard

ISO5752

## Test Standard

FM1112, UL1091

## Working pressure

200PSI / 250PSI / 300PSI

## Working Temperature

-10°C to 120°C

## Flanged Ends

BS EN1092-2 / ASME B16.42 / Class150

## Materials List

| Component          | Material                                    | Specification     |
|--------------------|---------------------------------------------|-------------------|
| Body               | Ductile Iron                                | ASTM A536         |
| Disc               | Ductile Iron EPDM Coated                    | ASTM A536+EPDM    |
| Upper&Lower Stems  | Stainless Steel                             | AISI 410          |
| O-Ring             | EPDM                                        |                   |
| Bushing            | Bronze                                      | ASTM B150M C63000 |
| Gland              | Galvanized Carbon Steel Surface Passivation |                   |
| Washer             | Galvanized Carbon Steel Surface Passivation |                   |
| Plug               | Galvanized Carbon Steel Surface Passivation |                   |
| Gear Box Housing   | Ductile Iron                                | ASTM A536         |
| Gear Box Fasteners | Galvanized Carbon Steel Surface Passivation |                   |

## Dimensions(mm/inch)

| SIZE | mm   | 50    | 65    | 80    | 100 | 125 | 150   | 200   | 250 | 300 |
|------|------|-------|-------|-------|-----|-----|-------|-------|-----|-----|
|      | inch | 2     | 2½    | 3     | 4   | 5   | 6     | 8     | 10  | 12  |
| A    |      | 140.5 | 152.5 | 157.5 | 176 | 191 | 202.5 | 243.5 | 273 | 311 |
| B    |      | 78    | 78    | 85    | 105 | 128 | 140   | 170   | 205 | 258 |
| L    |      | 43    | 46    | 46    | 52  | 56  | 56    | 62    | 68  | 78  |
| E    |      | 125   | 125   | 125   | 125 | 140 | 140   | 159   | 159 | 228 |
| H    |      | 258.6 | 270.6 | 275.6 | 294 | 312 | 322.6 | 345.5 | 401 | 437 |

Switches For indoor and Outdoor Use.

Note: Subject to change without prior notice due to products optimization.

# Butterfly Valve

Grooved Butterfly Valve With Signal Gear Box

Fig. 25GG-200  
25GG-250  
25GG-300



## Valve Standard

Fusion bonded coating comply with FM1112, UL1091

## Face-to-face Standard

MSS-SP67 Long

## Test Standard

FM1112, UL1091

## Working pressure

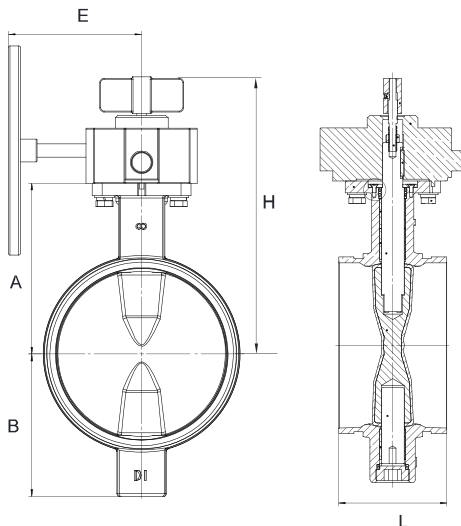
200PSI / 250PSI / 300PSI

## Working Temperature

-10°C to 120°C

## Flanged Ends

AWWA C606 / VDS 2100



## Materials List

| Component          | Material                                    | Specification     |
|--------------------|---------------------------------------------|-------------------|
| Body               | Ductile Iron                                | ASTM A536         |
| Disc               | Ductile Iron EPDM Coated                    | ASTM A536+EPDM    |
| Upper&Lower Stems  | Stainless Steel                             | AISI 410          |
| O-Ring             | EPDM                                        |                   |
| Bushing            | Bronze                                      | ASTM B150M C63000 |
| Gland              | Galvanized Carbon Steel Surface Passivation |                   |
| Washer             | Galvanized Carbon Steel Surface Passivation |                   |
| Plug               | Galvanized Carbon Steel Surface Passivation |                   |
| Gear Box Housing   | Ductile Iron                                | ASTM A536         |
| Gear Box Fasteners | Galvanized Carbon Steel Surface Passivation |                   |

## Dimensions(mm/inch)

| SIZE | mm   | 50   | 65      | 80   | 100   | 125         | 150         | 200   | 250 | 300    |
|------|------|------|---------|------|-------|-------------|-------------|-------|-----|--------|
|      | inch | 2    | 2½      | 3    | 4     | 5           | 6           | 8     | 10  | 12     |
| A    |      | 95   | 98      | 105  | 135   | 148         | 165         | 204   | 245 | 277.5  |
| B    |      | 72   | 78      | 85   | 105   | 128         | 140         | 170   | 205 | 258.3  |
| L    |      | 84.5 | 98      | 98   | 116   | 149         | 147.6       | 134   | 160 | 165    |
| E    |      | 125  | 125     | 125  | 125   | 140         | 140         | 159   | 159 | 228    |
| H    |      | 213  | 216     | 223  | 253   | 269         | 285         | 325   | 373 | 403.5  |
| ΦD   |      | 60.3 | 73/76.1 | 88.9 | 114.3 | 139.7/141.3 | 165.1/168.3 | 219.1 | 273 | 323.85 |

Factory installed UL listed double Tamper Switches For indoor and Outdoor Use.

Note: Subject to change without prior notice due to products optimization.

# Butterfly Valve

Resilient Seated Grooved Ends

Fig.20GG (Ductile Iron Body)  
22G (Bronze Body)



## Coating Standard

Fusion bonded coating comply with AWWA C550

## Working pressure

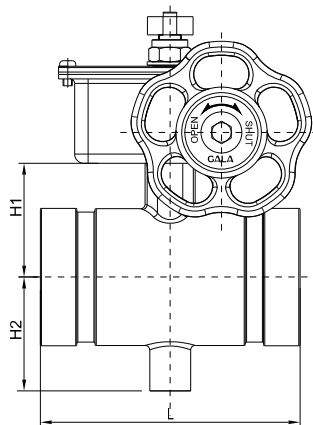
175PSI

## Working Temperature

-20°C to 110°C

## Flanged Ends

AWWA C606



## Materials List

| Part        | Material        | Specification      |
|-------------|-----------------|--------------------|
| Body (20GG) | Ductile Iron    | ASTM A536 65-45-12 |
| Body (22G)  | Bronze          | ASTM B62 C83600    |
| Disc        | Steel+EPDM      | ASTM 1045+EPDM     |
| Upper Shaft | Stainless Steel | SS630              |
| Lower Shaft | Stainless Steel | SS630              |
| O-Ring      | EPDM            |                    |
| Gasket      | Stainless Steel | AISI 304           |

## Dimensions(mm/inch)

| SIZE | mm   | 50   | 65   |
|------|------|------|------|
|      | inch | 2    | 2½   |
| H1   | mm   | 50   | 55.5 |
|      | inch | 1.97 | 2.19 |
| H2   | mm   | 50   | 55.5 |
|      | inch | 1.97 | 2.19 |
| L    | mm   | 114  | 114  |
|      | inch | 4.49 | 4.49 |

Factory installed UL listed double Tamper Switches For indoor and Outdoor Use.

Note: Subject to change without prior notice due to products optimization.

# Butterfly Valve

Resilient Seated Screwed Ends

Fig.20T (Ductile Iron Body)  
22T (Bronze Body)



## Coating Standard

Fusion bonded coating comply with AWWA C550

## Working pressure

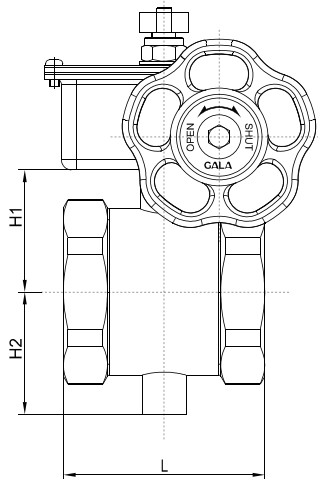
175PSI

## Working Temperature

-20°C to 110°C

## Flanged Ends

ASME B1.20.3 NPT/EN10226-1 Rp



## Materials List

| Part        | Material        | Specification      |
|-------------|-----------------|--------------------|
| Body (20T)  | Ductile Iron    | ASTM A536 65-45-12 |
| Body (22T)  | Bronze          | ASTM B62 C83600    |
| Disc        | Steel+EPDM      | ASTM 1045+EPDM     |
| Upper Shaft | Stainless Steel | SS630              |
| Lower Shaft | Stainless Steel | SS630              |
| O-Ring      | EPDM            |                    |
| Gasket      | Stainless Steel | AISI 304           |

## Dimensions(mm/inch)

| SIZE | mm   | 25   | 32   | 40   | 50   | 65   |
|------|------|------|------|------|------|------|
|      | inch | 1    | 1¼   | 1½   | 2    | 2½   |
| H1   | mm   | 37   | 42   | 44   | 50   | 55.5 |
|      | inch | 1.46 | 1.65 | 1.73 | 1.97 | 2.19 |
| H2   | mm   | 29   | 35   | 41   | 50   | 55.5 |
|      | inch | 1.14 | 1.38 | 1.61 | 1.97 | 2.19 |
| L    | mm   | 54   | 67   | 73   | 82.4 | 104  |
|      | inch | 2.13 | 2.64 | 2.87 | 3.24 | 4.09 |

Factory installed UL listed double Tamper Switches For indoor and Outdoor Use.

Note: Subject to change without prior notice due to products optimization.

# Air Release Valve

Screwed

Fig. 9712



## Valve Standard

Fusion bonded coating comply with AWWA C550

## Working pressure

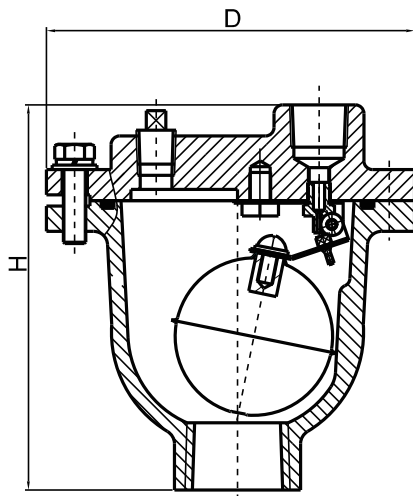
200PSI

## Working Temperature

-10°C to 120°C

## Connection Ends

NPT/BSPT/BSPP



## Materials List

| Part           | Material        | ASTM Spec.    |
|----------------|-----------------|---------------|
| Body           | Ductile Iron    | A536 65-45-12 |
| Cover          | Ductile Iron    | A536 65-45-12 |
| Level          | Stainless Steel | AISI 304      |
| Seat Ring      | Stainless Steel | AISI 304      |
| Float          | Stainless Steel | AISI 304      |
| Float Arm      | Stainless Steel | AISI 304      |
| Orifice Button | Viton           | Commercial    |

## Dimensions

| DN |      | Inlet | Outle | Orifice | D   | H   |
|----|------|-------|-------|---------|-----|-----|
| mm | inch |       |       |         |     |     |
| 15 | 1/2  | 15    | 15    | 1.6     | 125 | 137 |
| 20 | 3/4  | 20    | 15    | 1.6     | 125 | 137 |
| 25 | 1    | 25    | 15    | 1.6     | 125 | 137 |

Note: Subject to change without prior notice due to products optimization.



# Dry Barrel Fire Hydrant

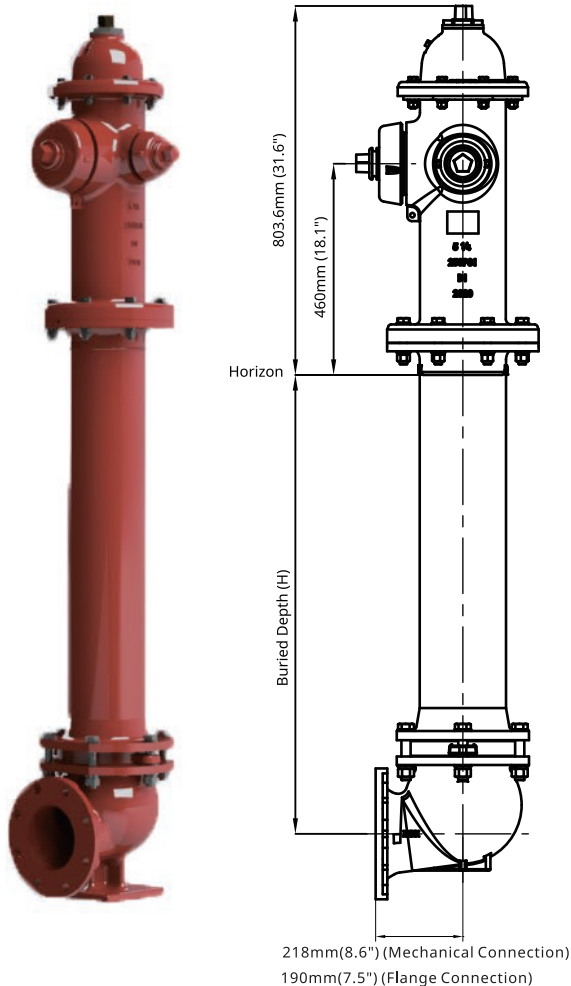
Fig.1510

## Technical Specification

|                        |                                                         |
|------------------------|---------------------------------------------------------|
| Design Standard        | FM 1510/UL 246/AWWA C502                                |
| Coating Standard       | AWWA C550                                               |
| Nozzle Thread Standard | NFPA 1963                                               |
| Hose Nozzle            | 2-1/2"-Two                                              |
| Pumper Nozzle          | 4" or 4-1/2"-One                                        |
| Mechanical Jiont       | Size: 6" ANSI/AWWA C111/A21.11<br>ANSI/AWWA C153/A21.53 |
| Flange End             | Size: 6" ANSI Class 125 / 150<br>BS EN1092-2 PN10 / 16  |
| Working Pressure       | 250PSI                                                  |



| Part name                   | Material             |
|-----------------------------|----------------------|
| Operating Nut               | C84400               |
| Dust Ring                   | EPDM                 |
| Lock Nut                    | CF8                  |
| Antifricition Mat           | C63000/PTFE          |
| Plug                        | SS304                |
| Cover                       | 65-45-12             |
| Uper Hydrant Body           | 6-4-12               |
| Top Shaft                   | SS420/45             |
| Gland                       | SS304                |
| Fire Engine Nozzle Cap      | 65-45-12             |
| Fire Engine Nozzle Gasket   | EPDM                 |
| Fire Engine Nozzle          | C84400               |
| Steel Wire Rope             | SS304 Plastic Coated |
| O-Ring                      | EPDM                 |
| Coupling                    | SS420/45             |
| Lower Hydrant Body          | 65-45-12             |
| Safety Flange               | 65-45-12             |
| Under Shaft                 | SS420/45             |
| Drain Valve Cover           | 65-45-12             |
| MJ Elbow Body               | 65-45-12             |
| Hexagon Head Blots          | SS304                |
| Flat Washer                 | SS304                |
| Spring Washer               | SS304                |
| Hexagonal Nut               | SS304                |
| Drain Valve Cover Seal      | EPDM                 |
| Pin                         | SS304                |
| Cotter Pin                  | SS304                |
| Uper Fire Hydrant Body Seal | EPDM                 |
| Hexagon Socket Head Screws  | SS304                |
| Hose Nozzle Cap             | 65-45-12             |
| Hose Nozzle Gasket          | EPDM                 |
| Hose Nozzle                 | C84400               |
| Hexagon Socket Set Screws   | SS304                |
| Drain Valve Cap             | C84400+EPDM          |
| Spring                      | SS304                |
| Seat                        | C84400               |
| Tablet                      | 65-45-12             |
| Disc Sealing Ring           | EPDM                 |
| Disc                        | 65-45-12             |
| Nut Press Ring              | 65-45-12+EPDM        |



## Buried Depth (H)

| inch | 1'  | 2'  | 3'  | 3'-6" | 4'-0" | 4'-6" | 5'-0" | 5'-6" | 6'-0" | 6'-6" | 7'-0" |
|------|-----|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|
| mm   | 326 | 543 | 848 | 1001  | 1153  | 1306  | 1458  | 1611  | 1763  | 1916  | 2068  |

Note: Subject to change without prior notice due to products optimization.

# Wet Barrel Fire Hydrant

Fig.1511



## Technical Specification

|                         |                                                    |
|-------------------------|----------------------------------------------------|
| Design Standard         | FM 1511/UL 246/AWWA C503                           |
| Coating Standard        | AWWA C550                                          |
| Hose Nozzle             | 2.5" *2                                            |
| Pumper Nozzle           | 4.5" or 4" *1                                      |
| Nozzle Standard         | NFPA 1963                                          |
| Monitor Flange          | Size: 4"-ANSI Class125                             |
| Inlet Flange Connection | Size: 6"-ANSI Class125/150<br>BS EN 1092-2 PN10/16 |
| Working Pressure        | 250PSI                                             |

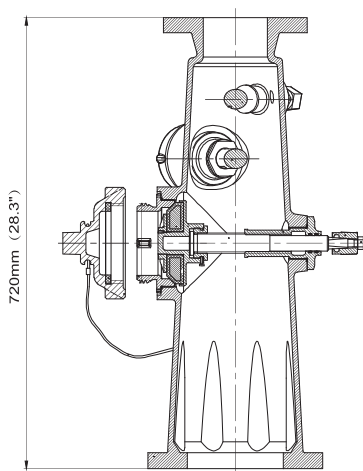


2H1PM

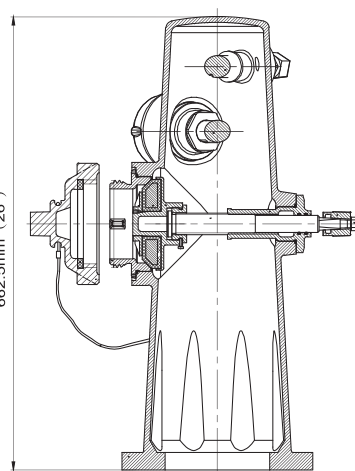


2H1P

| Part Name                              | Material             |
|----------------------------------------|----------------------|
| Hydrant Body                           | 65-45-12             |
| Steel Wire Rope                        | SS304 Plastic coated |
| O-Ring                                 | EPDM                 |
| FireEngineNozzle Cap                   | 65-45-12             |
| FireEngine Nozzle                      | C84400               |
| FireEngi neNozzle Gasket               | EPDM                 |
| 4.5" Gland                             | CF8                  |
| Inner Six Angle Flat End Set Screw     | A2                   |
| 4.5" Disc Sealing Ring                 | EPDM                 |
| 4.5" Disc                              | CF8                  |
| Shaft                                  | SS304/SS420          |
| Fixed Nut                              | CF8                  |
| Inner Six Angle Cylindrical Head Screw | A2-70                |
| 4.5" Shaft Nut                         | C84400               |
| Operating Nut                          | CF8                  |
| Hexagonal Nut                          | A2-70                |
| Hose Nozzle Cap                        | 65-45-12             |
| Hose Nozzle                            | C84400               |
| Hose Nozzle Gasket                     | EPDM                 |
| 2.5" Gland                             | CF8                  |
| 2.5" Disc Sealing Ring                 | EPDM                 |
| 2.5" Disc                              | CF8                  |
| Shaft Stem Nut                         | C84400               |
| Inner Six Angle Set Screw              | Carbon Steel + Zn    |



2H1PM

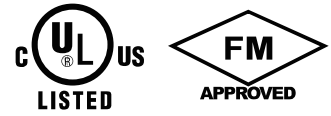


2H1P

Note: Subject to change without prior notice due to products optimization.

# Wet Barrel Fire Hydrant

Fig.1511



## Technical Specification

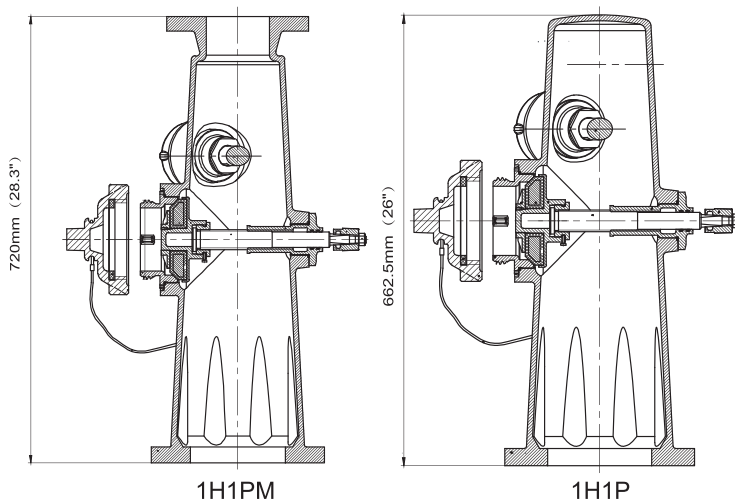
|                         |                                                    |
|-------------------------|----------------------------------------------------|
| Design Standard         | FM 1511/UL 246/AWWA C503                           |
| Coating Standard        | AWWA C550                                          |
| Nozzle Standard         | NFPA 1963                                          |
| Hose Nozzle             | 2.5" *1                                            |
| Pumper Nozzle           | 4.5" or 4" *1                                      |
| Monitor Flange          | Size: 4"-ANSI Class125/150                         |
| Inlet Flange Connection | Size: 6"-ANSI Class125/150<br>BS EN 1092-2 PN10/16 |
| Working Pressure        | 250PSI                                             |



1H1PM



1H1P

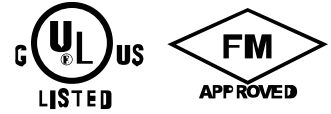


| Part Name                              | Material             |
|----------------------------------------|----------------------|
| Hydrant Body                           | 65-45-12             |
| Steel Wire Rope                        | SS304 Plastic coated |
| O-Ring                                 | EPDM                 |
| FireEngineNozzle Cap                   | 65-45-12             |
| FireEngine Nozzle                      | C84400               |
| FireEngi neNozzle Gasket               | EPDM                 |
| 4.5" Gland                             | CF8                  |
| Inner Six Angle Flat End Set Screw     | A2                   |
| 4.5" Disc Sealing Ring                 | EPDM                 |
| 4.5" Disc                              | CF8                  |
| Shaft                                  | SS304/SS420          |
| Fixed Nut                              | CF8                  |
| Inner Six Angle Cylindrical Head Screw | A2-70                |
| 4.5" Shaft Nut                         | C84400               |
| Operating Nut                          | CF8                  |
| Hexagonal Nut                          | A2-70                |
| Hose Nozzle Cap                        | 65-45-12             |
| Hose Nozzle                            | C84400               |
| Hose Nozzle Gasket                     | EPDM                 |
| 2.5" Gland                             | CF8                  |
| 2.5" Disc Sealing Ring                 | EPDM                 |
| 2.5" Disc                              | CF8                  |
| Shaft Stem Nut                         | C84400               |
| Inner Six Angle Set Screw              | Carbon Steel + Zn    |

Note: Subject to change without prior notice due to products optimization.

# Wet Barrel Fire Hydrant

Fig. 1511



## Technical Specification

|                         |                                                   |
|-------------------------|---------------------------------------------------|
| Design Standard         | FM 1511/UL 246/AWWA C503                          |
| Coating Standard        | AWWA C550                                         |
| Nozzle Standard         | NFPA 1963                                         |
| Hose Nozzle             | 2.5"*2                                            |
| Monitor Flange          | Size:4"-ANSI Class 125/150                        |
| Inlet Flange Connection | Size:6"-ANSI Class 125/150<br>BS EN 1092-2PN10/16 |
| Working Pressure        | 250PSI                                            |

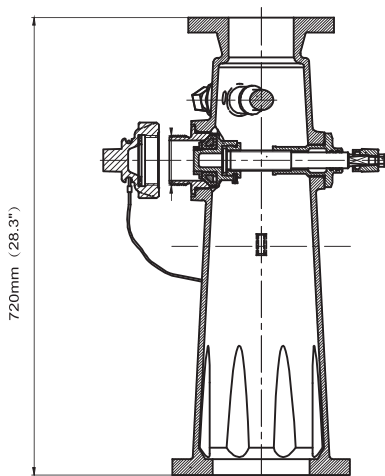
| Part Name                              | Material             |
|----------------------------------------|----------------------|
| Hydrant Body                           | 65-45-12             |
| Steel Wire Rope                        | SS304 Plastic coated |
| O-Ring                                 | EPDM                 |
| Hose Nozzle Cap                        | 65-45-12             |
| Hose Nozzle                            | C84400               |
| Hose Nozzle Gasket                     | EPDM                 |
| 2.5" Gland                             | CF8                  |
| Inner Six Angle Flat End Set Screw     | A2                   |
| 2.5" Disc Sealing Ring                 | EPDM                 |
| 2.5" Disc                              | CF8                  |
| Shaft                                  | SS304/SS420          |
| Fixed Nut                              | CF8                  |
| Inner Six Angle Cylindrical Head Screw | A2-70                |
| Shaft Nut                              | C84400               |
| Operating Nut                          | CF8                  |
| Hexagonal Nut                          | A2-70                |
| Inner Six Angle Set Screw              | Carbon Steel + Zn    |



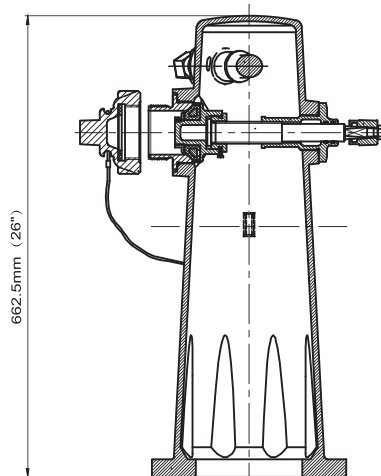
2H0PM



2H0P



2H0PM

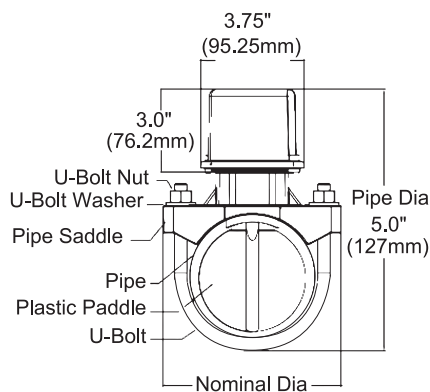
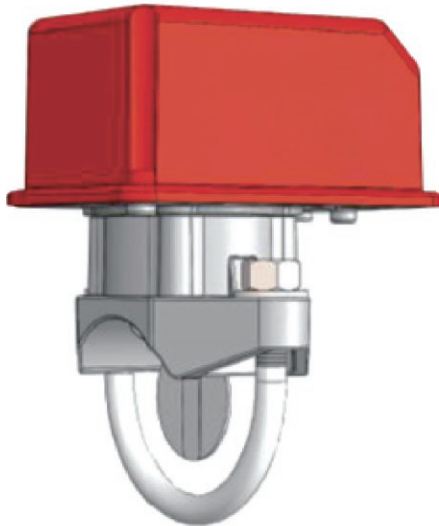


2H0P

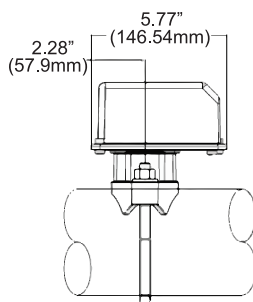
Note: Subject to change without prior notice due to products optimization.

# Water Flow Detector With Retard

Fig.1042-V



Nominal Dia 5.15" (130.8mm) for 2" ... 2½" (DN50 ... DN65)  
Nominal Dia 2.05" (52.1mm) for 3" ... 8" (DN80 ... DN200)



## DESCRIPTION

The 1042-V is a vane type water flow detector for use on fire protection and wet sprinkler system. It is suitable for use with Schedule 10 through 40 steel pipe of 2" to 8", and can be installed in vertical or horizontal pipe. The detectors shall have a sensitivity in the range of 4 to 10 gallons per minute, and a service pressure up to 450psi. 1042-V will respond to waterflow in the specified direction after preset time delay that is adjustable on site.

## FEATURES AND SPECIFICATIONS

- Two conduit opening of ½". One open; one knock-out type
- Sensitivity Range : 4 ... 10 usgpm
- Contact Rating : Two sets of SPDT (Form C) 10Amps (125 / 250 VAC) / 2Amps (24 VDC)
- Enclosure Rating : NEMA 4- suitable for indoor / outdoor
- Compatible Pipe: Fits 1", 1-1/4", 1-1/2" and 2" ferrous and brass threaded tees
- Special tamper screws to prevent disassembly
- Maximum Surge : 5.5m/s
- Time delay adjustment via rotating dial
- Two sets Micro-switch, 100% synchronization
- Working pressure : Max. 31bar / 450psi
- Working temperature : 4.5°C ... 49°C

## ORDERING MODEL AND SIZE

| MODEL      | PIPE SIZE   | HOLE SIZE    |
|------------|-------------|--------------|
| 1042-V-050 | 50mm (2")   | 31.8mm (1¼") |
| 1042-V-065 | 65mm (2.5") | 31.8mm (1¼") |
| 1042-V-080 | 80mm (3")   | 50.8mm (2")  |
| 1042-V-100 | 100mm (4")  | 50.8mm (2")  |
| 1042-V-150 | 150mm (6")  | 50.8mm (2")  |
| 1042-V-200 | 200mm (8")  | 50.8mm (2")  |

Note: Subject to change without prior notice due to products optimization.

# Water Flow Detector With Retard

Fig.1042-V



## INSTALLATION GUIDE

The 1042-V water flow detector may be mounted on a horizontal or vertical pipe. On horizontal pipe, it should be installed on the top side of the pipe where they will be accessible. The detector should not be installed within 6" (150mm) of a fitting which changes the direction of the waterflow or within 24" (600mm) of a valve or drain.

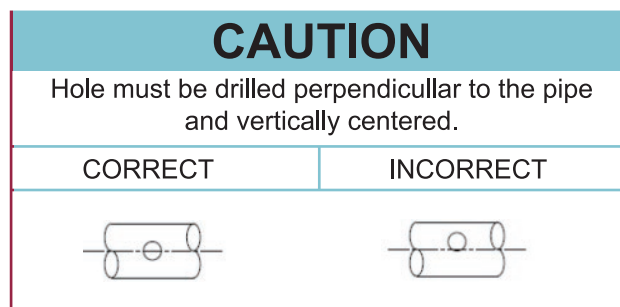
Drain the system and drill a hole on the pipe. The 2" (50mm) and 2½" (65mm) detectors require a hole with a diameter of 1¼" +/- 0.08" (31.8mm +/- 2mm). All other sizes require a hole with a diameter of 2" +/- 0.08" (50.8mm +/- 2mm).

Clean the inside pipe of all growth or other material for a distance equal to the pipe diameter on either side of the hole.

Roll the vane so that it may be inserted into the hole; do not bend or crease it. Insert the vane with the arrow on the saddle points in the direction of the waterflow.

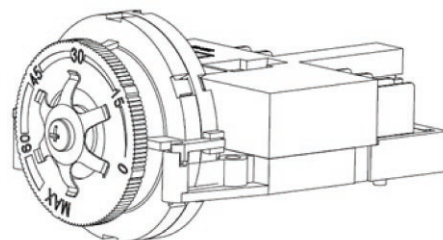
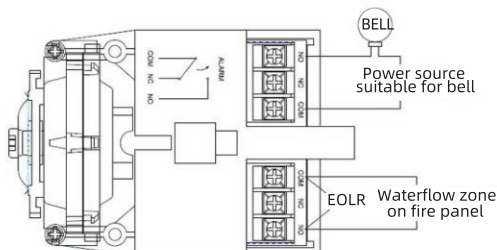
Do not leave cover off for an extended period of time.

**Retard Adjustment :** The delay can be adjusted by rotating the retard adjustment knob from 0~Max position (0~90 secs). Factory setting is position 2 (Delay time is approximate 30 seconds). The time delay should be set at the minimum required to prevent false alarms.



## ELECTRICAL CONNECTIONS AND TIME DELAY ADJUSTMENT

The 1042-V water flow detector have two switches, one can be used to operate a central station, proprietary or remote signaling unit, while the other contact is used to operate a local device or visual annunciator.



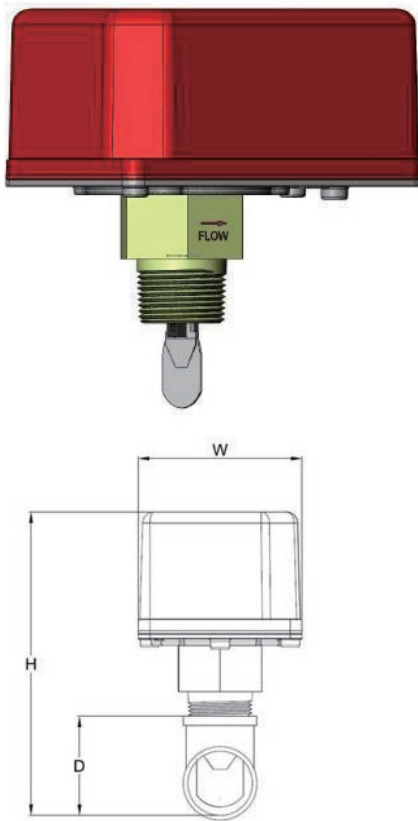
Note : Retard Structure can be set from "0" to "MAX" position, delay time can be set from 0~90 secs.

Note: Subject to change without prior notice due to products optimization.



# Water Flow Detector With Retard

Fig.1042-T



## FEATURES

- FM Approved.
- Rating Working Pressure: FM-Max 450PSI (3.1MPa)
- Flow Sensitivity Range for Signal: 4-10GPM (15.0-37.5L/min)
- Maximum Surge: 18FPS (5.5m/s)
- Contact Ratings: Two sets of SPDT (Form C)
  - 10.1Amps at 125/250 VAC
  - 2.0Amps at 24 VDC
- Operating Temperature Range: 40° F to 120°F (4.5°C to 49°C)
- Enclosure Rating: NEMA 4- suitable for indoor/outdoor use
- Conduit Entrances: Two opening for 1/2" conduit  
One open, one knock-out type
- Compatible Pipe: Fits 1", 1-1/4", 1-1/2" and 2" ferrous and brass  
threaded tees
- COVER Material: Aluminum Die-casting. Alternative Material Plastic

## ENGINEERING SPECIFICATIONS

The 1042-T water flow detector shall be installed in a tee that has a 1 inch NPT side outlet include 1in.、 1-1/4 in.、 1-1/2 in. and 2in. as designated on the drawing and/or as specified herein. Water flow detectors shall mount on any clear pipe span of the appropriate nominal size, either a horizontal or vertical pipe. The detector shall respond to water flow in the specified direction after a preset time delay that is field adjustable. The retard structure shall be a sealed mechanical pneumatic unit with visual time delay adjustment.

## INSTALLATION

The 1042-T water flow detector may be mounted on horizontal or vertical pipe. On horizontal pipe they should be installed on the top side of the pipe where they will be accessible. The devices should not be installed within 6"(150mm) of a fitting which changes the direction of the water flow or within 24"(600mm) of a valve or drain. Select the proper paddle for the pipe size and type of TEE used according to below table changing paddle refer to Fig.2. The unit has 1" NPT male thread for installation into a TEE. Refer to Fig.1 for proper TEE size and installation. Use no more than three wraps of Teflon tape.

Screw the device into the TEE fitting as shown in Fig.1. Care must be taken to properly orient the device for the direction of water flow. The vane must not rub the inside of the TEE or bind in any way. The stem should move freely when operated by hand.

Note: Subject to change without prior notice due to products optimization.



# Water Flow Detector With Retard

Fig.1042-T



**NOTE:** Do not leave cover off for an extended period of time. Retard Adjustment: The delay can be adjusted by rotating the retard adjustment knob from 0~Max position (0~90secs). Factory setting is position 2 (Delay time is approximate 30 seconds). The time delay should be set at the minimum required to prevent false alarms.

Fig.1

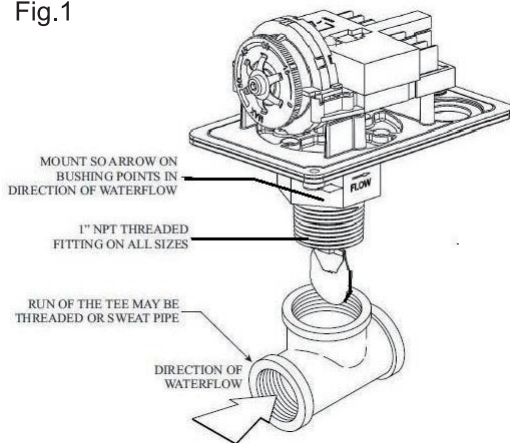
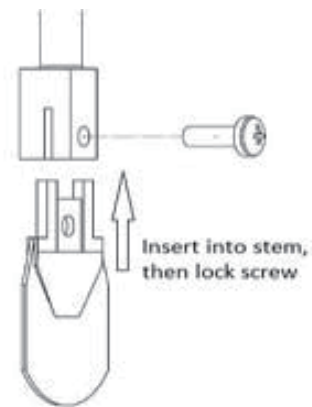


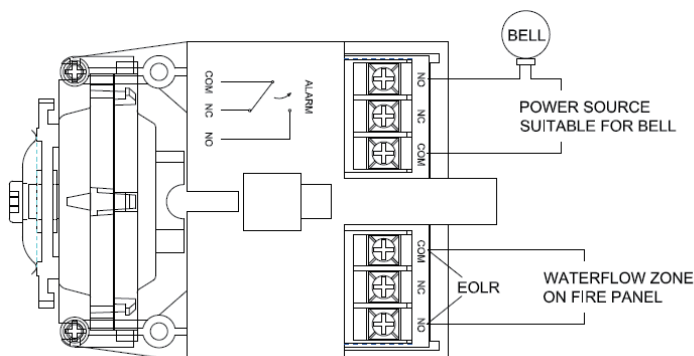
Fig.2



## Field Typical Electrical Connections:

Notes:

The 1042-T water flow detector has two switches, one can be used to operate a central station, proprietary or remote signaling unit, while the other contact is used to operate a local device or visual annunciator.



This additional pin hole would allow the wrench (coming with the device) to insert into it and temporarily stop the device from functioning causing false alarm during the maintenance. When the wrench is in there, it also prevents the red device cover to be reinstalled.

## Dimensions (mm、Inch)

| SIZE      | 1"DN25      | 1-1/4"DN32  | 1-1/2"DN40  | 2"DN50      |
|-----------|-------------|-------------|-------------|-------------|
| W         | 88.90/3.50  | 88.90/3.50  | 88.90/3.50  | 88.90/3.50  |
| H         | 165.00/6.50 | 173.65/6.84 | 180.00/7.08 | 193.20/7.61 |
| D (Depth) | 54/2.12     | 62.5/2.46   | 69/2.71     | 82/3.22     |

Note: Subject to change without prior notice due to products optimization.







## CAUTION

Technical data published in this catalogue have been developed from our design calculation, in-house testing, field reports provided by our customers and/or published official standard or specifications. They are good only to cover typical applications as a general guideline to users of GALA products introduced in this catalogue.

For any specific application, users are kindly requested to contact GALA for technical advice, or to carry out their own study and evaluation for providing suitability of the products to such an application. Failure to follow this request could result in property damage and/or personal injury, for which we shall not be liable.

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