



## LVF Gate valve Type: 1759 Steel Socket weld Class 800

Forged steel gate valve, OS&Y, with welded bonnet, bellows sealed and socket weld ends, Class 800

### Characteristics

**Type:** 1759  
**Norm:** ASME  
**Housing material:** Steel  
**Surface protection:** Phosphated  
**Connection:** Socket weld  
**Standard welding connection:** ASME B16.11  
**Full bore:** No  
**Stem seal type:** Bellows  
**Primary spindle seal material:** Graphite  
**Bellows material:** ASTM A182 F321  
**Material bonnet:** ASTM A105N  
**Bonnet gasket material:** Stainless steel 316 SW  
 Graphite filled  
**Actuator material:** Steel  
**Minimum medium temperature (continuous):** -29 °C  
**Maximum medium temperature (continuous):** 426 °C  
**Maximum pressure difference at 20 °C:** 136 bar  
**Approvals:** API 624

### Application

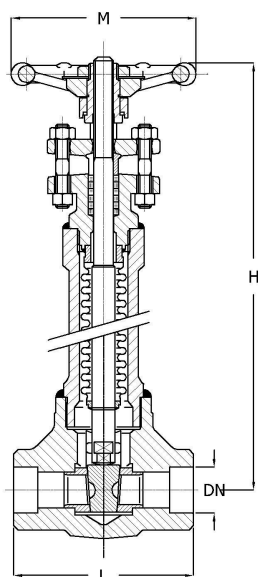
- Refineries and [petro-] chemical procesinstallations.
- Oil & gas industry.
- Steam and thermal oil.
- Neutral liquids and gases.
- Recommended in: Chemical, Petrochemical and Refining

### Technical Information

- Design: API602, ASME B16.34.
- Testing: API598.
- Emission standard: API 624.
- NACE MR01-75, MR01-03.

### Options

- Available with bolted bonnet and not bellows sealed; type 1755.
- Available in Class 1500.
- Available in other materials.
- Available for cryogenic or high temperature applications.
- Equipped with an electric, pneumatic or hydraulic actuator.



Size table:

| DN          | H   | L   | M   | Weight |
|-------------|-----|-----|-----|--------|
|             | mm  | mm  | mm  | kg     |
| 1/2" [15]   | 145 | 80  | 80  | 1.8    |
| 3/4" [20]   | 155 | 90  | 80  | 1.8    |
| 1" [25]     | 185 | 110 | 80  | 3.6    |
| 1.1/2" [40] | 255 | 127 | 120 | 7.5    |
| 2" [50]     | 277 | 130 | 120 | 9.8    |

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| Pressure and temperature table                                  |       |       |       |       |       |       |       |      |      |      |      |      |       |
|-----------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|-------|
| -29/38                                                          | 50    | 100   | 150   | 200   | 250   | 300   | 350   | 400  | 425  | 450  | 500  | 538  | [°C]  |
| 136.2                                                           | 133.7 | 124.3 | 120.2 | 116.8 | 106.2 | 103.2 | 100.2 | 92.6 | 76.7 | 61.3 | 31.4 | 15.7 | [bar] |
| ASTM A105N is not recommended for long-term use above 425 °C.   |       |       |       |       |       |       |       |      |      |      |      |      |       |
| Check the above values and any additional comments with API602. |       |       |       |       |       |       |       |      |      |      |      |      |       |

| Material quality | Nominal inner diameter | Pressure rating | Face to Face norm     | Face to Face length<br>mm | Operation                               | Type of bonnet | Sealing | Wedge material | Spindle material | Article  |
|------------------|------------------------|-----------------|-----------------------|---------------------------|-----------------------------------------|----------------|---------|----------------|------------------|----------|
| ASTM A105N       | 1/2" [15]              | Class 800       | Manufacturer standard | 80                        | Hand wheel, non-rising with rising stem | Welded bonnet  | Trim 5  | ASTM A479 410  | ASTM A479 410    | 13614912 |
| ASTM A105N       | 3/4" [20]              | Class 800       | Manufacturer standard | 90                        | Hand wheel, non-rising with rising stem | Welded bonnet  | Trim 5  | ASTM A479 410  | ASTM A479 410    | 13614923 |
| ASTM A105N       | 1" [25]                | Class 800       | Manufacturer standard | 110                       | Hand wheel, non-rising with rising stem | Welded bonnet  | Trim 5  | ASTM A479 410  | ASTM A479 410    | 13614924 |
| ASTM A105N       | 1.1/2" [40]            | Class 800       | Manufacturer standard | 127                       | Hand wheel, non-rising with rising stem | Welded bonnet  | Trim 5  | ASTM A479 410  | ASTM A479 410    | 13614925 |
| ASTM A105N       | 2" [50]                | Class 800       | Manufacturer standard | 130                       | Hand wheel, non-rising with rising stem | Welded bonnet  | Trim 5  | ASTM A479 410  | ASTM A479 410    | 13615013 |

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