



## LVF Check valve Type: 1805 Steel Flange Class 300

Forged steel check valve, piston type, with bolted cover and flanged ends, Class 300

### Characteristics

**Type:** 1805  
**Norm:** ASME  
**Construction type:** Straight  
**Housing material:** Steel  
**Material quality:** ASTM A105N  
**Surface protection:** Phosphated  
**Connection:** Flange  
**Flange finish:** Raised face  
**Face to Face norm:** ASME B16.10, T2, Serie 15  
**With spring:** Yes  
**Minimum medium temperature (continuous):** -29 °C  
**Maximum medium temperature (continuous):** 426 °C

### Application

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

### Technical Information

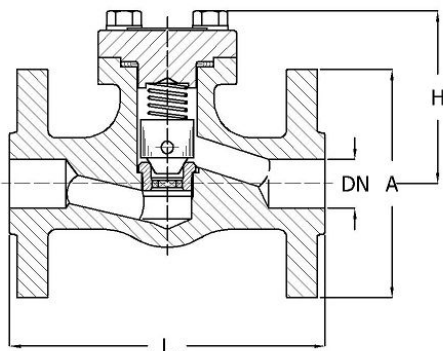
- Design: API602, ASME B16.34.
- Testing: API598.
- Emission standard: API 624.
- NACE MR01-75, MR01-03.

### Options

- Available in Class 150; type 1804.
- Available in Class 600; type 1806.
- Available in Class 1500 and 2500.
- Available in other materials.
- Available with butt weld ends or RTJ flanges.
- Available for cryogenic or high temperature applications.

Size table:

| DN          | A   | H   | L     | Weight |
|-------------|-----|-----|-------|--------|
|             | mm  | mm  | mm    | kg     |
| 1/2" [15]   | 95  | 70  | 152.5 | 3      |
| 3/4" [20]   | 118 | 85  | 178   | 5.1    |
| 1" [25]     | 124 | 95  | 203   | 6      |
| 1.1/2" [40] | 156 | 100 | 229   | 12.5   |
| 2" [50]     | 165 | 110 | 267   | 19     |



Pressure and temperature table

| -29/38 | 50   | 100  | 150  | 200  | 250  | 300  | 350  | 400  | 425  | 450 | 500  | 538 | [°C]  |
|--------|------|------|------|------|------|------|------|------|------|-----|------|-----|-------|
| 51.1   | 50.1 | 46.6 | 45.1 | 43.8 | 41.9 | 39.8 | 37.6 | 34.7 | 28.8 | 23  | 11.8 | 5.9 | [bar] |

ASTM A105N is not recommended for long-term use above 425 °C.

Check the above values and any additional comments with ASME B16.34 (last version).

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## Non-return Valves | Non-return Valves with Flange Connection

| Nominal inner diameter | Pressure rating | Face to Face length<br>mm | Valve shape | Sealing | Material disc | Material cover | Material cover gasket                  | Spring material | Maximum pressure difference at 20 °C<br>bar | Article  |
|------------------------|-----------------|---------------------------|-------------|---------|---------------|----------------|----------------------------------------|-----------------|---------------------------------------------|----------|
| 1/2" [15]              | Class 300       | 152.5                     | Flap        | Trim 8  | ASTM A479 410 | ASTM A105N     | Stainless steel 316 SW Graphite filled | ASTM A479 316   | 50                                          | 13614960 |
| 3/4" [20]              | Class 300       | 178                       | Flap        | Trim 8  | ASTM A479 410 | ASTM A105N     | Stainless steel 316 SW Graphite filled | ASTM A479 316   | 50                                          | 13615048 |
| 1" [25]                | Class 300       | 203                       | Flap        | Trim 8  | ASTM A479 410 | ASTM A105N     | Stainless steel 316 SW Graphite filled | ASTM A479 316   | 50                                          | 13615050 |
| 1.1/2" [40]            | Class 300       | 229                       | Flap        | Trim 8  | ASTM A479 410 | ASTM A105N     | Stainless steel 316 SW Graphite filled | ASTM A479 316   | 50                                          | 13615051 |
| 2" [50]                | Class 300       | 267                       | Flap        | Trim 8  | ASTM A479 410 | ASTM A105N     | Stainless steel 316 SW Graphite filled | ASTM A479 316   | 20                                          | 14281748 |

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