

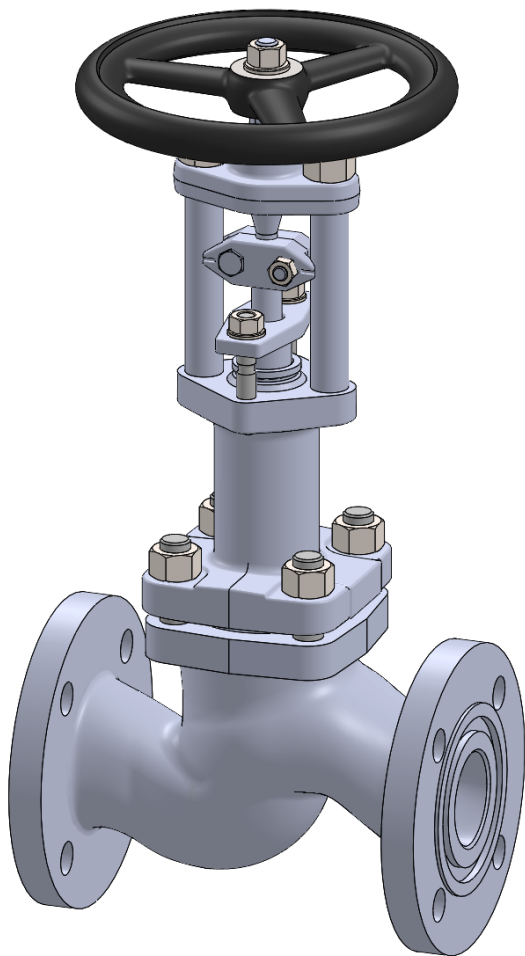


**PHÖNIX**

**STRACK**

**DAUME**  
REGELARMATUREN

**SIP** Solent & Pratt  
Phönix Ltd



# Globe Valve

## Type 350

### PN 25

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## Model 350

Straight Way / Protected Bellows

### Applications & Design Features

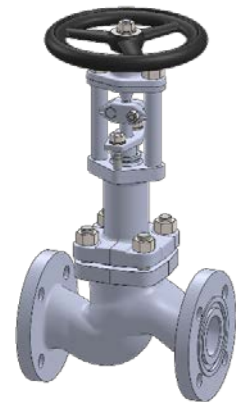
#### Applications

Model 350 is designed for critical service applications involving lethal, toxic, corrosive, inflammable, volatile, radiating, or expensive fluids. A Fire-Safe approved design per DIN EN 10497 is available for applications that have to comply with fire security standards.

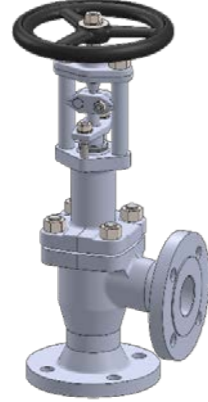
High vacuum resistant design 10<sup>-3</sup> to 10<sup>-8</sup> mbar, helium leakage test is possible if required  
the most common applications are

- Dry Chlorine (Cl<sub>2</sub>)
- Anhydrous Hydrogen Chloride (HCl)
- Vinyl Chloride Monomer (VCM)
- Ethylene Dichloride (EDC)
- Anhydrous Hydrofluoric Acid (HF)
- Isocyanates (MDI, TDI, HDI, etc.)
- heat transfer fluid application (steam, hot oil, molten Sodium, etc.) and
- fluids of similar nature.

The unique valve design guarantees reliable and excellent protection against leaks or fugitive emissions. The stem seal requires virtually no maintenance due to leak free weld connections of the bellows with bonnet and stem. Constant packing monitoring and re-packing is eliminated. In the unlikely event of a bellows failure the backup packing guarantees safe valve performance until the next scheduled shutdown.



*Straight*



*Angle*



*Y-Pattern*

#### Design Features

##### Bellows and Packing

- bellows protected in extended bonnet against direct impingement from product flow
- multiple walls and hydroformed bellows
- up to 50.000 bellows operations guaranteed

##### Stem

- two-piece stem protects the bellows against torque stress
- design eliminates stem bearings along with their maintenance needs
- guided stem on top and bottom
- one-piece stem design upon request

##### Body and Bonnet

- bodies are forgings or castings with larger than required wall thickness and integral flanges
- extended bonnet provides for good thermal insulation
- body bonnet joint gasket is fully confined to prevent gasket flow or blowout

##### Seats

- solid hardfacings for outstanding corrosion and wear resistance
- knife edge metal-to-metal seat for bubble-tight shutoff
- replaceable disc for inexpensive maintenance

**= zero emissions, zero seat leakage, low maintenance**

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Straight Way / Protected Bellows

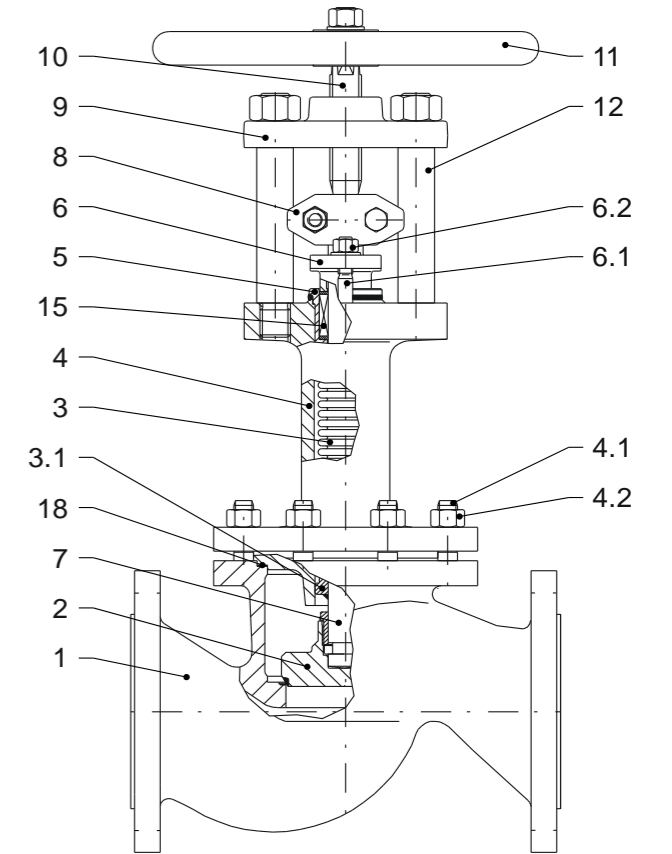
### Standard Materials of Construction

#### Options

Other materials per customer requirements are available!

#### Notes

Phoenix reserves the right to change product design and specification without notice!



#### Materials

| Item | Part Name            | Carbon steel<br>Model 350C<br>up to 450°C        | low temp. Carbon steel<br>Model 350T<br>-50°C up to 300°C | Stainless steel<br>Model 350V<br>-200°C up to 400°C |
|------|----------------------|--|---|---|
| 1    | Body<br>Seat overlay | 1.0460 / 1.0619<br>1.4370 (≈ 200HRB)             | 1.0566 / 1.6220<br>1.4370 (≈ 200HRB)                      | 1.4404 / 1.4408<br>like body (≈ 200HRB)             |
| 2    | Disc<br>Overlay      | 1.4021 hardened /<br>1.0460<br>1.4009 (≈ 300HRB) | 1.4571 / 1.0566<br>Stellite 6 (≈ 42HRC)                   | 1.4571<br>Stellite 6 (≈ 42HRC)                      |
| 3    | Bellows              | 1.4571   | 1.4571  | 1.4571  |
| 3.1  | Guide ring           | 1.4571   | 1.4571  | 1.4571  |
| 4    | Bonnet               | 1.0460 / 1.0619                                  | 1.0566 / 1.6220   | 1.4404 / 1.4408                                     |
| 4.1  | Stud bolt            | 1.7709   | A4-70   | A4-70   |
| 4.2  | Hex. nut             | 1.7218   | A4-70   | A4-70   |
| 5    | Stuffing box body    | 1.4571   | 1.4571  | 1.4571  |
| 6    | Gland follower       | 1.0619   | 1.5638  | 1.4408  |
| 6.1  | Stud bolt            | Steel 5.6  | A4-70   | A4-70   |
| 6.2  | Hex. nut             | Steel 5  | A4-70   | A4-70   |
| 7    | Lower stem           | 1.4571   | 1.4571  | 1.4571  |
| 8    | Coupling             | 1.4408   | 1.4408  | 1.4408  |
| 9    | Bridge               | 1.0460, QPQ-nitrided                             | 1.0460, QPQ-nitrided                                      | 1.0460, QPQ-nitrided                                |
| 10   | Upper stem           | 1.4057   | 1.4057  | 1.4057  |
| 11   | Handwheel            | Cast iron  | Cast iron   | Cast iron   |
| 12   | Pillar               | 1.0501   | 1.4057  | 1.4057  |
| 15   | Packing              | Graphite   | PTFE-silk *   | Graphite  |
| 18   | Gasket               | Grooved SS / graphite                            | Grooved SS / graphite                                     | Grooved SS / graphite                               |

\* ≥ 220°C Packing of pure graphite



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