

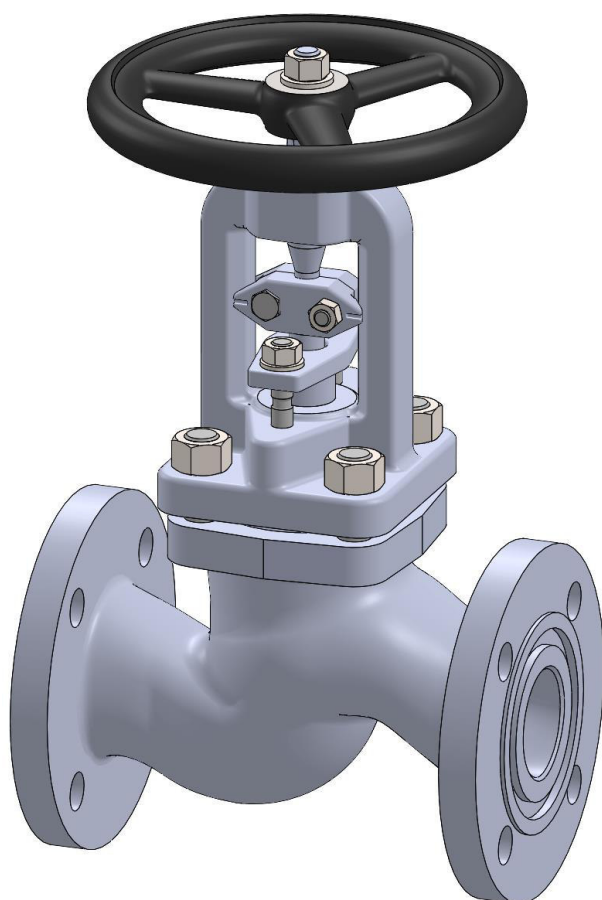


**PHÖNIX**

**STRACK**

**DAUME**  
REGELARMATUREN

**S/P** Solent & Pratt  
Phoenix Ltd



# Globe Valve

## Type S20/ S24/ 430

### PN 160

Phoenix Valve Group  
Am Stadtbruch 6  
34471 Volkmarsen

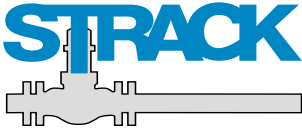
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# Globe Valve S20/ S24/ 430

PN160 DN65 - DN150



- Design**
- Globe valve, Straight-way type
  - Flanged ends
  - Stem sealed by stuffing box
  - Coupling divided stem, rising handwheel
  - Disc with conic metal-to-metal seal
  - Additional back seat at fully opened valve

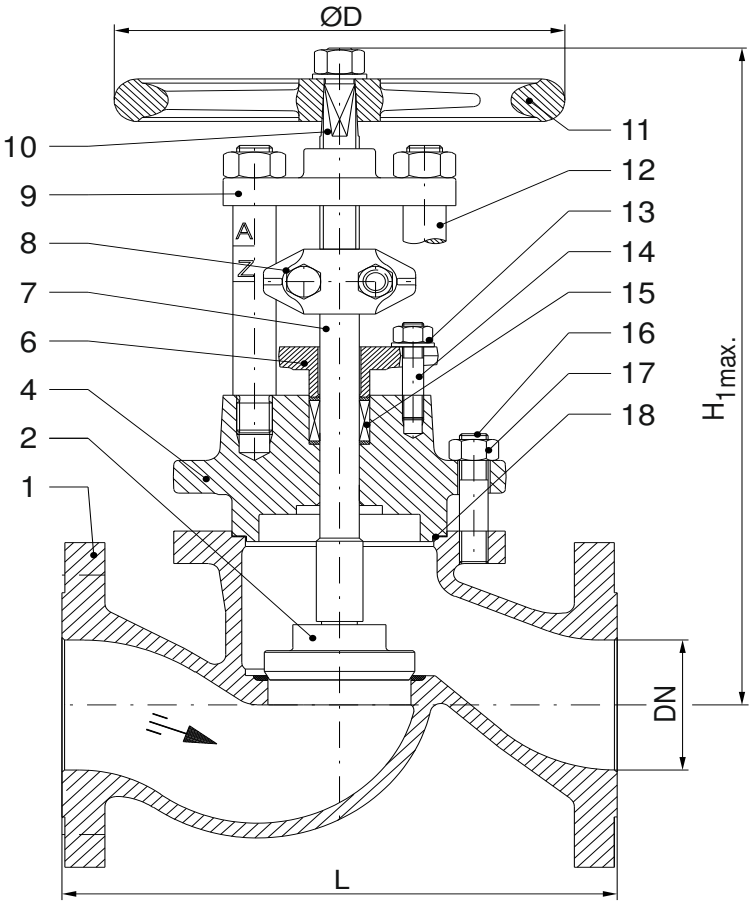
**Dimensions**

| PN160 | Size / DN     | 65  | 80  | 100 | 125 | 150 |
|-------|---------------|-----|-----|-----|-----|-----|
|       | L             | 340 | 380 | 430 | 500 | 550 |
|       | H             | 430 | 495 | 570 | 570 | 785 |
|       | D             | 315 | 315 | 400 | 400 | 400 |
|       | Weight ( kg ) | 45  | 55  | 85  | 90  | 108 |

**Drag coefficient / Flow coefficient**

| Size / DN     | 65  | 80  | 100 | 125 | 150 |
|---------------|-----|-----|-----|-----|-----|
| $\zeta_v$ [-] | 4,9 | 5,2 | 5   | 5,4 | 5,5 |
| $k_v$ [m³/h]  | 76  | 112 | 179 | 267 | 375 |

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# Globe Valve S20/ S24/ 430

PN16 - PN160 DN65 - DN300

## Materials



|      |                 | Heat resistant carbon steel     |                  |                                      |        | Low temperature steel                      |                  | Stainless steel                            |             |
|------|-----------------|---------------------------------|------------------|--------------------------------------|--------|--------------------------------------------|------------------|--------------------------------------------|-------------|
| Item | Part name       | Material *<br>up to 400°C       | DIN              | Material *<br>from -10°C up to 500°C | DIN    | Material *<br>from -50°C up to 300°C       | DIN              | Material *<br>from -200°C up to 400°C      | DIN         |
| 1    | Body<br>Overlay | GP240GH<br>G 18 8Mn (≈ 200 HRB) | 1.0619<br>1.4370 | G12CMo19-5<br>Stellite 21 (≈ 32 HRC) | 1.7363 | G21Mn 5<br>G 18 8Mn (≈ 200 HRB)            | 1.1138<br>1.4370 | GX5CrNiMo19-11-2<br>-                      | 1.4408<br>- |
| 2    | Disc<br>Overlay | P250GH<br>G Z 13 (≈ 300 HRB)    | 1.0460<br>1.4009 | 12CrMo19-5<br>Stellite 6 (≈ 42 HRC)  | 1.7362 | X6CrNiMoTi17-12-2<br>Stellite 6 (≈ 42 HRC) | 1.4571           | X6CrNiMoTi17-12-2<br>Stellite 6 (≈ 42 HRC) | 1.4571      |
| 4    | Bonnet          | GP240GH                         | 1.0619           | G12CMo19-5                           | 1.7363 | G21Mn 5                                    | 1.1138           | GX5CrNiMo19-11-2                           | 1.4408      |
| 6    | Gland follower  | GP240GH                         | 1.0619           | GP240GH                              | 1.0619 | G9Ni14                                     | 1.5638           | X6CrNiMoTi17-12-2                          | 1.4571      |
| 7    | Lower Stem      | X20Cr13                         | 1.4021           | X20CrMoV11-1                         | 1.4922 | X6CrNiMoTi17-12-2                          | 1.4571           | X6CrNiMoTi17-12-2                          | 1.4571      |
| 8    | Coupling        | GX5CrNiNb19-10                  | 1.4552           | GX5CrNiNb19-10                       | 1.4552 | GX5CrNiNb19-10                             | 1.4552           | GX5CrNiNb19-10                             | 1.4552      |
| 10   | Upper Stem      | X17CrNi16-2                     | 1.4057           | X17CrNi16-2                          | 1.4057 | X17CrNi16-2                                | 1.4057           | X17CrNi16-2                                | 1.4057      |
| 11   | Handwheel       | EN-GJS-400-15                   | 0.7040           | EN-GJS-400-15                        | 0.7040 | EN-GJS-400-15                              | 0.7040           | EN-GJS-400-15                              | 0.7040      |
| 13   | Hex.nut         | Steel                           | 5                | 21CrMoV5-7                           | 1.7709 | A4-70                                      |                  | A4-70                                      |             |
| 14   | Stud bolt       | Steel                           | 5.6              | 25CrMo4                              | 1.7218 | A4-70                                      |                  | A4-70                                      |             |
| 15   | Packing         | Graphite                        |                  | Graphite                             |        | PTFE-Silk**                                |                  | Graphite                                   |             |
| 16   | Stud bolt       | 21CrMoV5-7                      | 1.7709           | 21CrMoV5-7                           | 1.7709 | A4-70                                      |                  | A4-70                                      |             |
| 17   | Hex.nut         | 25CrMo4                         | 1.7218           | 25CrMo4                              | 1.7218 | A4-70                                      |                  | A4-70                                      |             |
| 18   | Bonnet gasket   | Kammprofil / Graphite + S.S.    |                  | Kammprofil / Graphite + S.S.         |        | Kammprofil / Graphite + S.S.               |                  | Kammprofil / Graphite + S.S.               |             |

## Special materials on request

\* Pressure-temperature-rating see appendix

\*\* ≥ 220°C Packing of pure graphite

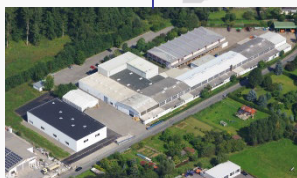
## Specification

|                         |                                            |
|-------------------------|--------------------------------------------|
| Marking                 | EN19, AD-A4, CE                            |
| Face-to-face dimensions |                                            |
| Flanged option          | DIN EN 558-1                               |
| Butt weld ends          | DIN EN 12982 up to PN100                   |
| Socket weld ends        |                                            |
| Connections             |                                            |
| Flanged option          | DIN EN 1092-1 up to PN100 / DIN 2512 PN160 |
| Butt weld ends          | DIN EN 12627                               |
| Socket weld ends        | DIN EN 12760                               |
| Testing standard        | AD-2000, DIN 3230 section 3, DIN EN 12266  |

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