



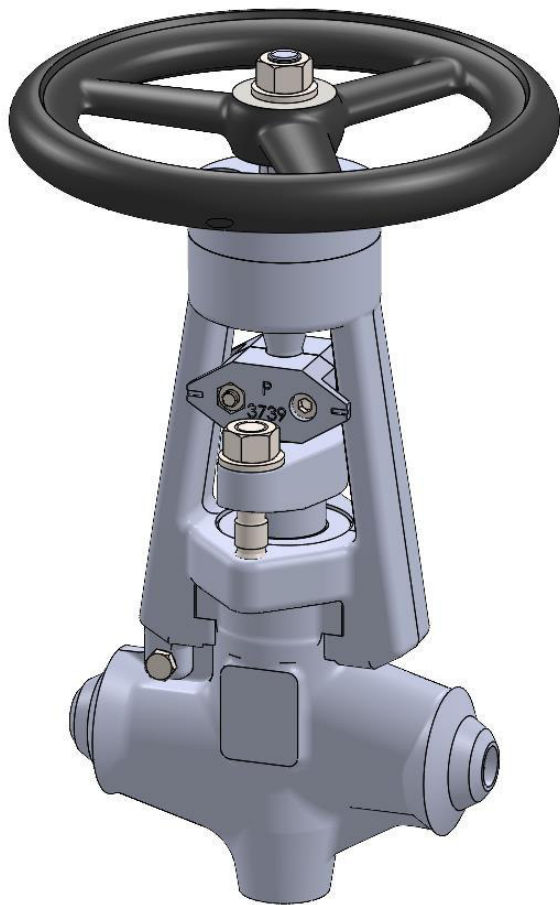
PHÖNIX

STRACK

DAUME
REGELARMATUREN



Solent & Pratt
Phoenix Ltd



Globe Valve

Type S21

Class 600 - 2500

Phoenix Valve Group
Am Stadtbruch 6
34471 Volkmarsen

Phone:
web:
eMail:

+49 5693 988 0
www.phoenix-valvegroup.com
info@phoenix-valvegroup.com



Globe Valve / Type S21

NPS 1/2 - 2
 Cl. 600 / 900 / 1500 / 2500



Design

- With rotating rising handwheel
- Construction of forged components
- Coverless design
- With integrated stuffing seal in the body, non rotating disc and coupling stem

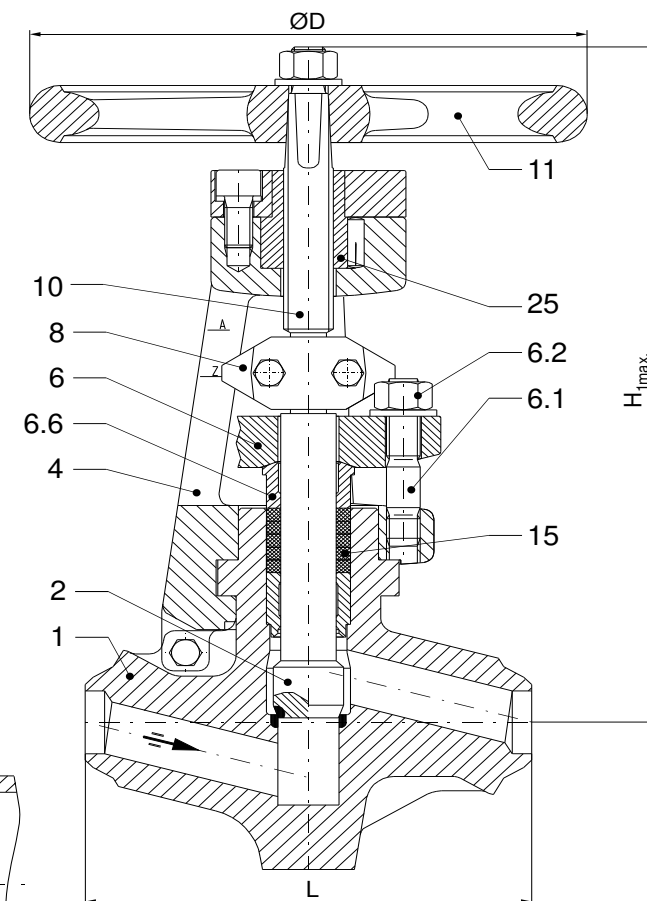
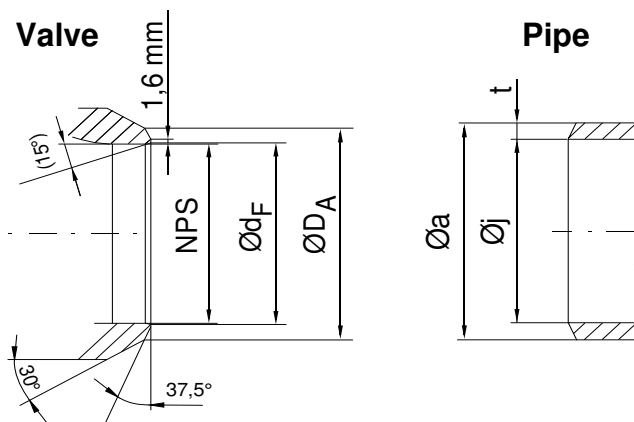
Dimensions of welding ends

| NPS | Schedule 40 | | | | | Schedule 80 | | | | | Schedule 160 | | | | | L | Weight (kg) |
|-------|-----------------|-----------------|------|-----|------|-----------------|-----------------|------|-----|------|-----------------|-----------------|------|-----|------|-----|-------------|
| | ØD _A | Ød _F | Øa | t | Øj | ØD _A | Ød _F | Øa | t | Øj | ØD _A | Ød _F | Øa | t | Øj | | |
| 1/2 | 21,5 | 15,5 | 21,3 | 2,8 | 15,8 | 21,5 | 13 | 21,3 | 3,7 | 13,9 | 21,5 | 11 | 21,3 | 4,8 | 11,8 | 160 | 7 |
| 3/4 | 27 | 21 | 26,7 | 2,9 | 20,9 | 27 | 18 | 26,7 | 3,9 | 18,8 | 27 | 15 | 26,7 | 5,6 | 15,5 | 160 | 7 |
| 1* | 34 | 27 | 33,4 | 3,4 | 26,6 | 34 | 24 | 33,4 | 4,5 | 24,3 | 34 | 21 | 33,4 | 6,4 | 20,7 | 160 | 7 |
| 1 1/4 | 42 | 35 | 42,2 | 3,6 | 35,1 | 42 | 32 | 42,2 | 4,8 | 32,5 | 42 | 29 | 42,2 | 6,4 | 29,5 | 250 | 27 |
| 1 1/2 | 48,5 | 41 | 48,3 | 3,7 | 40,9 | 48,5 | 38 | 48,3 | 5,1 | 38,1 | 48,5 | 34 | 48,3 | 7,1 | 34,0 | 250 | 27 |
| 2** | 60,5 | 52,5 | 60,3 | 3,9 | 52,5 | 60,5 | 49 | 60,3 | 5,5 | 49,3 | 60,5 | 43 | 60,3 | 8,7 | 42,8 | 250 | 27 |

* maximum possible diameter of Da = 49mm / ** maximum possible diameter of Da = 90mm

Drag coefficient / Flow coefficient

| NPS | 1/2 | 3/4 | 1 | 1 1/2 | 2 |
|------------------------------------|-----|-----|-----|-------|------|
| ζ _v [-] | 7 | 5,3 | 9,1 | 9,5 | 10,5 |
| k _v [m ³ /h] | 3,3 | 6,8 | 8,3 | 20 | 29 |



PHÖNIX reserves the right to change product design and specification without notice.

PHÖNIX • P +49 5693 988-0 • F +49 5693 988-178 • info@phoenix-valvegroup.com • https://phoenix-valvegroup.com

Globe Valve / Type S21

Cl. 600 / 900 / 1500 / 2500 NPS 1/2 - 2

Materials



| Item | Part name | Heat resistant carbon steel | Low temperature steel | Stainless steel |
|------|-------------------|---|---|--|
| | | Material * | Material* -50 °C / 500 bar 400 °C / 375 bar | Material* 20 °C / 500 bar 550 °C / 356 bar |
| 1 | Body | 20 °C / 630 bar ... 450 °C / 193 bar A 105 20 °C / 630 bar ... 530 °C / 132 bar A 182 Gr. F1 20 °C / 630 bar ... 550 °C / 137 bar A 182 Gr. F11 20 °C / 630 bar ... 600 °C / 195 bar A 182 Gr. F22 20 °C / 630 bar ... 650 °C / 123 bar A 182 Gr. F91 | A 350 Gr. LF2 | A 182 Gr.F316L |
| | Overlay | Stellite 21 (≈ 32 HRC) | Stellite 21 (≈ 32 HRC) | Stellite 21 (≈ 32 HRC) |
| 2 | Disc + Lower Stem | >10 % Cr (1.4922) | >10 % Cr (1.4922) | A 182 Gr.F316Ti |
| | Overlay | Stellite 6 (≈ 42 HRC) | Stellite 6 (≈ 42 HRC) | Stellite 6 (≈ 42 HRC) |
| 4 | Bonnet | A 182 Gr. F12 | A 182 Gr. F11 | A 182 Gr. F11 |
| 6 | Gland follower | A 182 Gr. F22 | A 182 Gr. F22 | A 182 Gr. F22 |
| 6a | Pressure piece | A 182 Gr. F12 | A 479 Gr.316Ti | A 479 Gr.316Ti |
| 8 | Coupling | A 351 CF 8M | A 351 CF 8M | A 351 CF 8M |
| 10 | Upper Stem | A 182 Gr. F6 | A 182 Gr. F6 | A 182 Gr. F6 |
| 11 | Handwheel | A 395 | A 395 | A 395 |
| 15 | Packing | Graphite | Graphite | Graphite |
| 16 | Stud bolt | A 193 Gr.B7 | A 193 Gr.B7 | A 193 Gr.B7 |
| 17 | Hex.nut | A 194 - 7L | A 194 - 7L | A 194 - 7L |
| 25 | Screwed bush | CuAl10Fe3Mn2F60 34CrAlMo5 | CuAl10Fe3Mn2F60 34CrAlMo5 | CuAl10Fe3Mn2F60 34CrAlMo5 |

Special materials on request

* Pressure-temperature-rating see appendix

Specification

| | |
|-------------------------|---|
| Marking | MSS SP-25, ISO 5209 (EN19, AD-A4, CE) |
| Face-to-face dimensions | |
| Butt weld ends | Manufacturer standard |
| Socket weld ends | Manufacturer standard |
| Connections | |
| Butt weld ends | ASME B 16.25 |
| Socket weld ends | ASME B 16.11 |
| Testing standard | API 598, ISO 5208 (AD-2000, DIN 3230 section 3) |

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Contact us



Volkmarsen, Germany

Sales and Operations

Phönix Valve Group GmbH

Volkmarsen, Germany
Phone: +49 5693 988 0
Email: info@phoenix-valvegroup.com
Website: www.phoenix-valvegroup.com

Phönix Armaturen Werke-Bregel GmbH

Volkmarsen, Germany
Phone: +49 5693 988 0
Email: info@phoenix-valvegroup.com
Website: www.phoenix-valvegroup.com

Strack GmbH

Volkmarsen, Germany
Phone: +49 5693 988 0
Email: info@phoenix-valvegroup.com
Website: www.phoenix-valvegroup.com

PAW SARL

Genay Cedex, France
Phone: +33 437 408 195
Email: commercial@phoenix-valvegroup.com
Website: www.phoenix-valvegroup.com

Daume Regelarmaturen GmbH

Volkmarsen, Germany
Phone: +49 5693 988 0
Email: info@phoenix-valvegroup.com
Website: www.phoenix-valvegroup.com

Solent & Pratt Phönix Ltd.

Volkmarsen, Germany
Phone: +49 5693 988 0
Email: info@phoenix-valvegroup.com
Website: www.phoenix-valvegroup.com



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