



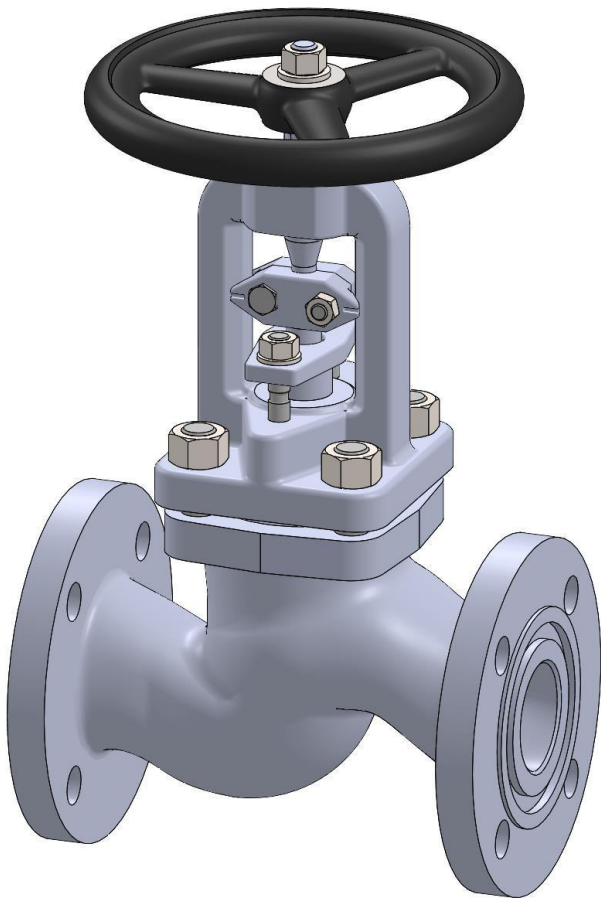
**PHÖNIX**

**STRACK**

**DAUME**  
REGELARMATUREN



**Solent & Pratt**  
Phönix Ltd



# Globe Valve

## Type S20/ S24/ 430

## Class 150 - 600

Phönix Valve Group  
Am Stadtbruch 6  
34471 Volkmarsen

Phone:  
web:  
eMail:

+49 5693 988 0  
[www.phoenix-valvegroup.com](http://www.phoenix-valvegroup.com)  
[info@phoenix-valvegroup.com](mailto:info@phoenix-valvegroup.com)



# Globe Valve / S20

NPS 1/2 - 2  
Cl. 150 / 300 / 600



## Design

Construction of forged components  
Flanged ends, Socket weld ends and Butt weld ends  
Rotating loose disc with conic metal-to-metal seal  
Stem sealed by stuffing box  
Additional back seat at fully opened valve  
Rising handwheel  
Material for trim parts acc. API 600.

## Dimensions

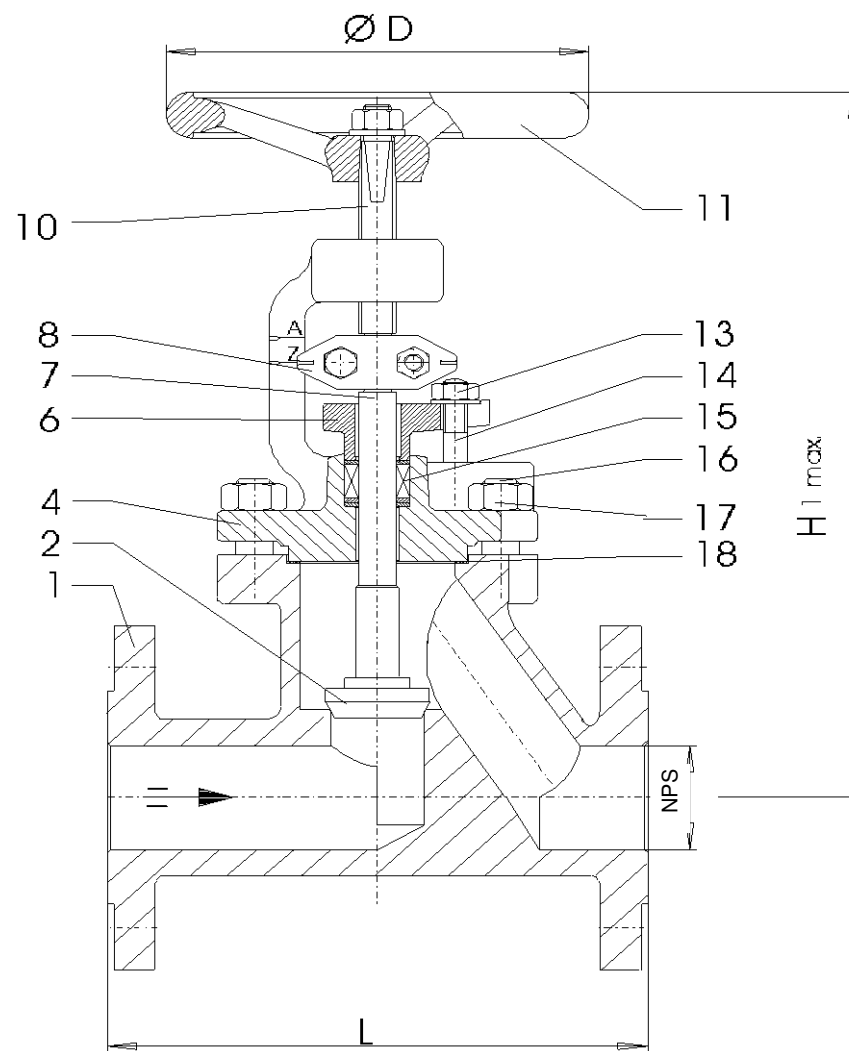
Cl. 150	NPS	1/2	3/4	1	1 1/4	1 1/2	2
	$L_{RF}$	108	118	127	140	165	203
	$L_{BW, SW}$	150	150	160	210	210	250
	H	275	255	275	315	315	350
	D	150	150	150	200	200	200
	Weight ( kg )	5,5	6,5	6,5	10	13	15

Cl. 300	NPS	1/2	3/4	1	1 1/4	1 1/2	2
	$L_{RF}$	152	173	203	216	229	267
	$L_{BW, SW}$	150	150	160	210	210	250
	H	275	255	275	315	315	350
	D	150	150	150	200	200	200
	Weight ( kg )	5,5	6,5	6,5	10	13	15

Cl. 600	NPS	1/2	3/4	1	1 1/4	1 1/2	2
	$L_{RF}$	165	190	216	229	241	292
	$L_{BW, SW}$	150	150	160	210	210	250
	H	275	255	275	315	315	350
	D	150	150	150	200	200	200
	Weight ( kg )	6	7	9	12	15	20

## Drag coefficient / Flow coefficient

NPS	1/2	3/4	1	1 1/4	1 1/2	2
$\zeta_v$ [-]	6,2	4,7	7,7	5,7	5,5	9,7
$k_v$ [m <sup>3</sup> /h]	3,6	7,4	9	17	27	32



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 / S20

Cl. 150 / 300 / 600 NPS ½ - 2



## Materials

Item	Part name	Heat resistant carbon steel		Low temperature steel	Stainless steel
		Material up to 400°C	Material from -10°C up to 500°C	Material from -50°C up to 300°C	Material from -200°C up to 400°C
1	Body	A 105	A 182 Gr. F5	A 350 Gr. LF2	A 182 Gr.F316L
	Overlay	ER 307	ER 307	ER 307	
	Overlay	A 216 WCB	A 182 Gr. F5	A 352 LCC	A 351 CF 8M
		ER 307	ER 307	ER 307	
2	Disc	A 276 Gr. 420	A 182 Gr. F5	A 479 Gr.316Ti	A 479 Gr.316Ti
	Overlay	ER 410	ER 307		
4	Bonnet	A 105	A 182 Gr. F5	A 350 Gr. LF2	A 182 Gr.F316L
6	Gland follower	A 216 WCB	A 216 WCB	A 352 LC3	A 479 Gr.316Ti
7	Lower Stem	A 479 Gr.316Ti	A 182 Gr. F6	A 479 Gr.316Ti	A 479 Gr.316Ti
8	Coupling	A 351 CF 8C	A 351 CF 8C	A 351 CF 8C	A 351 CF 8C
10	Upper Stem	A 276 Gr. 431	A 276 Gr. 431	A 276 Gr. 431	A 276 Gr. 431
11	Handwheel	A 395	A 395	A 395	A 395
13	Hex.nut	carbon steel	A 194 - 7L	A 194 Gr. 8M	A 194 Gr. 8M
14	Stud bolt	carbon steel	A 193 Gr.B7	A 193 Gr. B8M	A 193 Gr. B8M
15	Packing	Graphite	Graphite	PTFE-Silk**	Graphite
16	Stud bolt	A 193 Gr.B7	A 193 Gr.B7	A 193 Gr. B8M	A 193 Gr. B8M
17	Hex.nut	A 194 - 7L	A 194 - 7L	A 194 Gr. 8M	A 194 Gr. 8M
18	Bonnet gasket	Kammprofil / Graphite + S.S.	Kammprofil / Graphite + S.S.	Kammprofil / Graphite + S.S.	Kammprofil / Graphite + S.S.

Special materials on request.

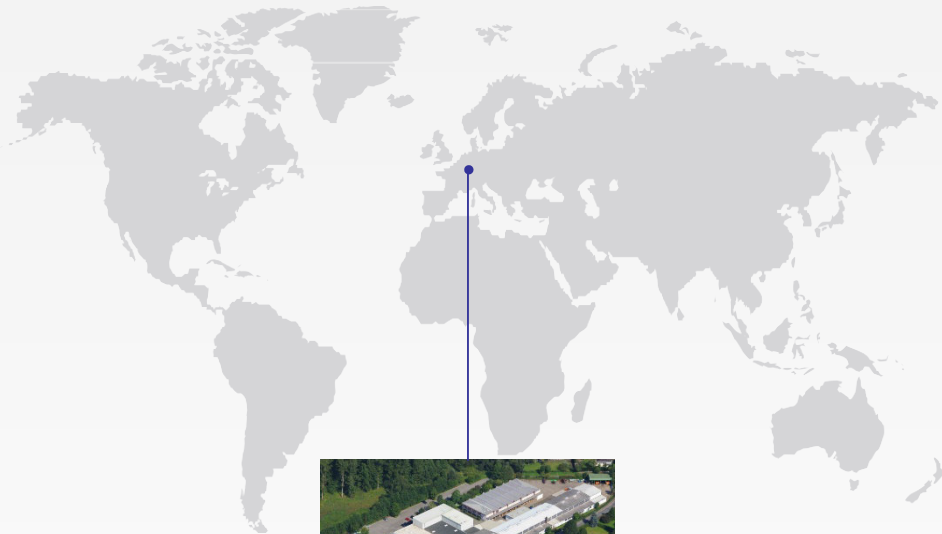
\*\* ≥ 220°C Packing of pure graphite

## Specification

Marking	MSS SP-25, ISO 5209 (EN19, AD-A4, CE)
Face-to-face dimensions	
Flanged option	ASME B 16.10
Butt weld ends	ASME B 16.10 / manufacturer standard
Socket weld ends	ASME B 16.34
Connections	
Flanged option	ASME B 16.5
Butt weld ends	ASME B 16.25
Socket weld ends	ASME B 16.11
Pressure-temp.-rating	ASME B 16.34
Testing standard	API 598, ISO 5208 (AD-2000, DIN 3230 section 3)

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

# Contact us



Volkmarsen, Germany

## Sales and Operations

### Phönix Valve Group GmbH

Volkmarsen, Germany  
Phone: +49 5693 988 0  
Email: [info@phoenix-valvegroup.com](mailto:info@phoenix-valvegroup.com)  
Website: [www.phoenix-valvegroup.com](http://www.phoenix-valvegroup.com)

### Phönix Armaturen Werke-Bregel GmbH

Volkmarsen, Germany  
Phone: +49 5693 988 0  
Email: [info@phoenix-valvegroup.com](mailto:info@phoenix-valvegroup.com)  
Website: [www.phoenix-valvegroup.com](http://www.phoenix-valvegroup.com)

### Strack GmbH

Volkmarsen, Germany  
Phone: +49 5693 988 0  
Email: [info@phoenix-valvegroup.com](mailto:info@phoenix-valvegroup.com)  
Website: [www.phoenix-valvegroup.com](http://www.phoenix-valvegroup.com)

### PAW SARL

Genay Cedex, France  
Phone: +33 437 408 195  
Email: [commercial@phoenix-valvegroup.com](mailto:commercial@phoenix-valvegroup.com)  
Website: [www.phoenix-valvegroup.com](http://www.phoenix-valvegroup.com)

### Daume Regelarmaturen GmbH

Volkmarsen, Germany  
Phone: +49 5693 988 0  
Email: [info@phoenix-valvegroup.com](mailto:info@phoenix-valvegroup.com)  
Website: [www.phoenix-valvegroup.com](http://www.phoenix-valvegroup.com)

### Solent & Pratt Phönix Ltd.

Volkmarsen, Germany  
Phone: +49 5693 988 0  
Email: [info@phoenix-valvegroup.com](mailto:info@phoenix-valvegroup.com)  
Website: [www.phoenix-valvegroup.com](http://www.phoenix-valvegroup.com)



While this information is presented in good faith and believed to be accurate, Phönix Valve Group GmbH, does not guarantee satisfactory results from reliance on such information. Nothing contained herein is to be construed as a warranty or guarantee, expressed or implied, regarding the performance, merchantability, fitness or any other matter with respect to the products, nor as a recommendation to use any product or process in conflict with any patent. Phönix Valve Group GmbH, reserves the right, without notice, to alter or improve the designs or specifications of the products described herein.

© 2022 Phönix Valve Group. All rights reserved. Specifications are subject to change without notice. All trademarks are property of their respective owners

Printed in Germany  
09/22-R0