

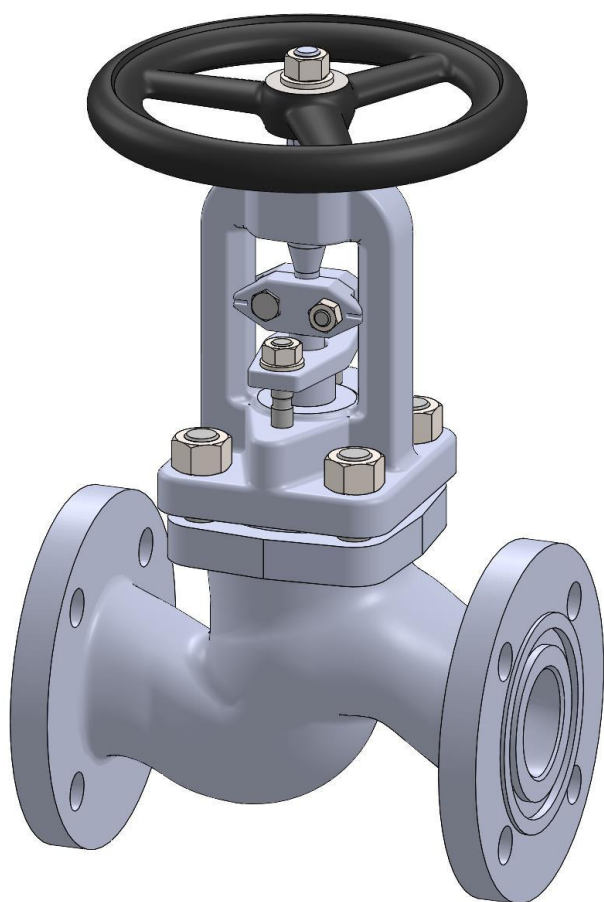


PHÖNIX

STRACK

DAUME
REGELARMATUREN

S/P Solent & Pratt
Phoenix Ltd



Globe Valve

Type S20/ S24

Class 150 - 600

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Globe Valve / S20 / S24

NPS 2 1/2 - 10
CI. 150 / 300 / 600



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

CI. 150	NPS	2 1/2	3	4	5	6	8	10
	L_{RF}	216	241	292	356	406	495	622
	$H_{1max.}$	415	475	555	555	720	745	850
	D	200	250	315	315	400	500	500
	Weight (kg)	23	30	50	85	110	205	342

CI. 300	NPS	2 1/2	3	4	5	6	8	10
	L_{RF}	292	318	356	400	445	559	622
	$H_{1max.}$	415	475	555	555	720	745	850
	D	200	250	315	315	400	500	500
	Weight (kg)	45	55	85	90	110	205	342

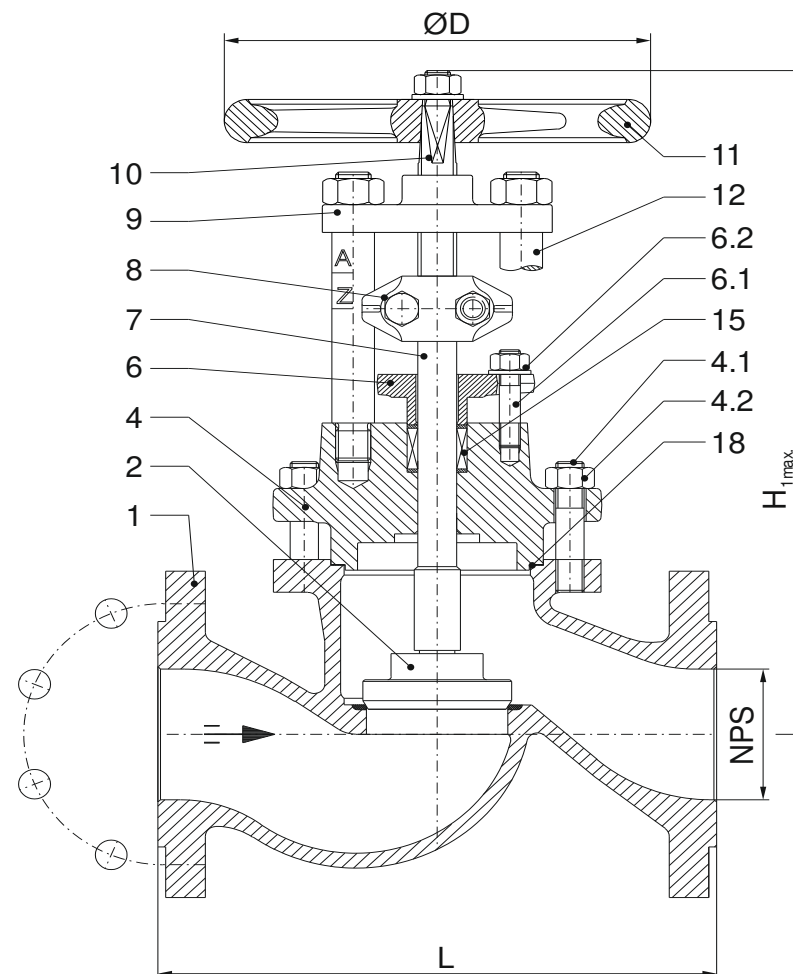
CI. 600	NPS	2 1/2	3	4	5	6	8	10
	L_{RF}	330	356	432	508	559	660	-
	$H_{1max.}$	430	495	570	570	785	850	-
	D	315	315	400	400	400	500	-
	Weight (kg)	55	65	90	125	160	250	-

Attention: italic nominal width with equilibrating disc, see appendix

Drag coefficient / Flow coefficient

NPS	2 1/2	3	4	5	6	8	10
$\zeta_v [-]$	4,9	5,2	5	5,4	5,5	5,2	-
$k_v [m^3/h]$	76	112	179	267	375	693	-

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



Globe Valve / S20 / S24

Cl. 150 / 300 / 600 NPS 2 1/2 - 10

Materials

Item	Part name	Heat resistant carbon steel	Low temperature steel	Stainless steel
		Material up to 400°C	Material from -50°C up to 300°C	Material from -200°C up to 400°C
1	Body Overlay	A 216 WCB ER 307	A 352 LCC ER 307	A 351 CF8M
2	Disc ≤ NPS 2 1/2 > NPS 2 1/2 Overlay	A 276 Gr. 420 A 105 ER 410	A 479 Gr.316Ti A 479 Gr.316Ti	A 479 Gr.316Ti A 479 Gr.316Ti
4	Bonnet ≤ NPS 2 1/2 > NPS 2 1/2	P250GH GP240GH	A 350 Gr. LF2 A 352 LCC	A 182 Gr.F316L A 351 CF8M
4.1	Stud bolt	A 193 Gr.B7	A 193 Gr. B8M	A 193 Gr. B8M
4.2	Hex.nut	A 194 - 7L	A 194 Gr. 8M	A 194 Gr. 8M
6	Gland follower	A 216 WCB / A105	A 352 LC3	A 479 Gr.316Ti
6.1	Stud bolt	carbon steel	A 193 Gr. B8M	A 193 Gr. B8M
6.2	Hex.nut	carbon steel	A 194 Gr. 8M	A 194 Gr. 8M
7	Lower stem	A 479 Gr.316Ti	A 479 Gr.316Ti	A 479 Gr.316Ti
8	Coupling	A 351 CF8M	A 351 CF 8C	A 351 CF 8C
9	Bridge	A105, QPQ nitrided	A105, QPQ nitrided	A105, QPQ nitrided
10	Upper stem	AISI 431	AISI 431	AISI 431
11	Handwheel	Cast iron	Cast iron	Cast iron
12	Pillar	C35	C35	C35
15	Packing	Graphite	PTFE-Silk**	Graphite
18	Bonnet gasket	Grooved / Graphite + S.S.	Grooved / Graphite + S.S.	Grooved / Graphite + S.S.

Special materials on request

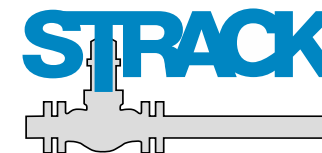
** ≥ 220°C Packing of pure graphite

Specification

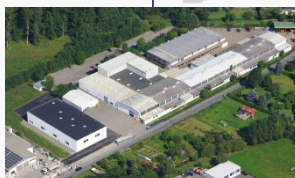
Marking	MSS SP-25, ISO 5209 (EN19, AD-A4, CE)
Face-to-face dimensions	ASME B 16.10
	ASME B 16.10 / manufacturer standard
	ASME B 16.34
Connections	ASME B 16.5
	ASME B 16.25
	ASME B 16.11
Pressure-temp.-rating	ASME B 16.34
Testing standard	API 598, ISO 5208 (AD-2000, DIN 3230 section 3)

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