



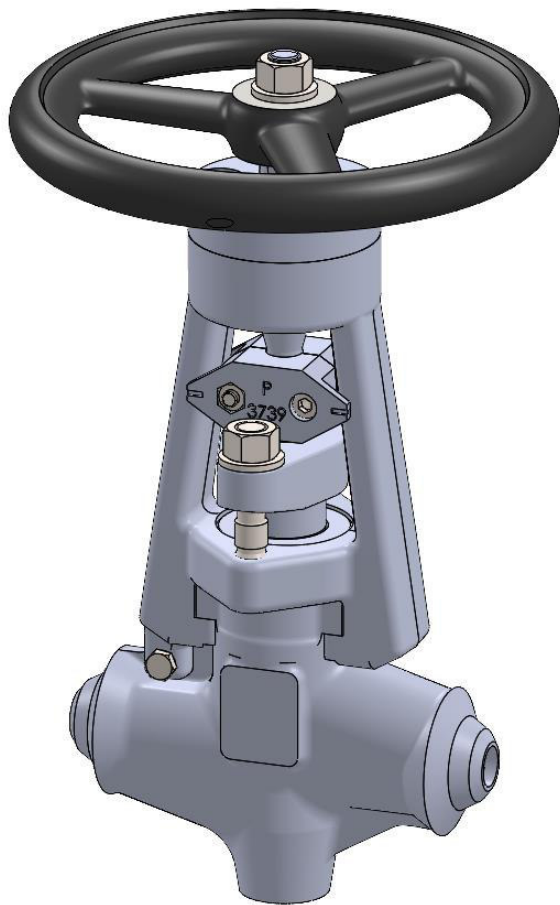
**PHÖNIX**

**STRACK**

**DAUME**  
REGELARMATUREN



**Solent & Pratt**  
Phönix Ltd



# Globe Valve

## Type S21

### PN 100 - 250

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# Globe Valve / Type S21

DN 15 - 50  
PN 100 / 160 / 250



## 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 acc. to DIN 3239

DN	PN 100					PN 160					PN 250					L	Weight (kg)
	ØD <sub>A</sub>	Ød <sub>F</sub>	Øa	t	Øj	ØD <sub>A</sub>	Ød <sub>F</sub>	Øa	t	Øj	ØD <sub>A</sub>	Ød <sub>F</sub>	Øa	t	Øj		
15	22	17	21,3	2,0	17,3	22	17	21,3	2,0	17,3	22	16	21,3	2,6	16,1	160	7
25*	34	28,5	33,7	2,6	28,5	34	27	33,7	3,2	27,3	35	26,5	33,7	3,6	26,5	160	7
40	49	43	48,3	2,6	43,1	49	41	48,3	3,6	41,1	49	38,5	48,3	5,0	38,3	250	27
50**	61	54	60,3	3,2	53,9	61	52,5	60,3	4,0	52,3	61	45	60,3	8,0	44,3	250	27

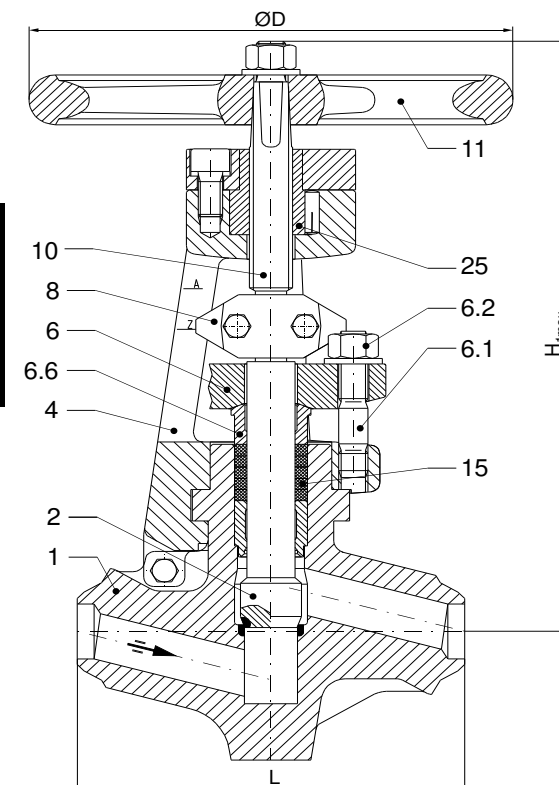
other dimensions on request

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

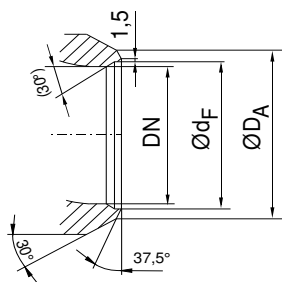
Pipe dimensions (Øa + t) for welding ends acc. to DIN EN 12627 must be given by customer

## Drag coefficient / Flow coefficient

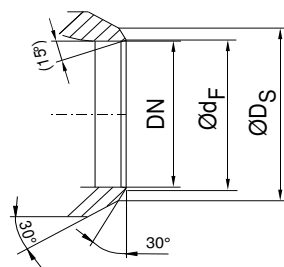
DN	15	20	25	32	40	50
ζ <sub>v</sub> [-]	7	5,3	9,1	11	9,5	10,5
k <sub>v</sub> [m <sup>3</sup> /h]	3,3	6,8	8,3	12	20	29



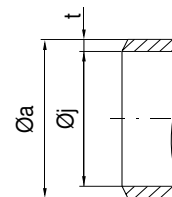
**Valve**  
DIN EN 12627



**Valve**  
DIN 3239



**Pipe**



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

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# Globe Valve / Type S21

PN 100 / 160 / 250 DN 15 - 50

## Materials



Item	Part name	Heat resistant carbon steel		Low temperature steel		Stainless steel	
		Material*	DIN	Material* -50 °C / 500 bar 400 °C / 375 bar	DIN	Material* 20 °C / 500 bar 550 °C / 356 bar	DIN
1	Body	20 °C / 630 bar ... 450 °C / 193 bar P250GH	1.0460	P355NL1	1.0566	X 2CrNiMo17-12-2	1.4404
		20 °C / 630 bar ... 530 °C / 132 bar 16Mo3	1.5415				
		20 °C / 630 bar ... 550 °C / 137 bar 13CrMo4-5	1.7335				
		20 °C / 630 bar ... 600 °C / 195 bar 10CrMo9-10	1.7380				
		20 °C / 630 bar ... 650 °C / 123 bar X10CrMoVNb9-1	1.4903				
	Overlay	Stellite 21 (≈ 32 HRC)		Stellite 21 (≈ 32 HRC)		Stellite 21 (≈ 32 HRC)	
2	Disc + Lower Stem	X20CrMoV11-1	1.4922	X20CrMoV11-1	1.4922	X 6CrNiMoTi17-12-2	1.4571
	Overlay	Stellite 6 (≈ 42 HRC)		Stellite 6 (≈ 42 HRC)		Stellite 6 (≈ 42 HRC)	
4	Bonnet	13CrMo4-5	1.7335	13CrMo4-5	1.7335	13CrMo4-5	1.7335
6	Gland follower	GS12CrMo9-10	1.7380	GS12CrMo9-10	1.7380	GS12CrMo9-10	1.7380
6a	Pressure piece	13CrMo4-5	1.7335	X 6CrNiMoTi17-12-2	1.4571	X 6CrNiMoTi17-12-2	1.4571
8	Coupling	GX5CrNiMo19-11-2	1.4408	GX5CrNiMo19-11-2	1.4408	GX5CrNiMo19-11-2	1.4408
10	Upper Stem	X20CrMoV11-1	1.4922	X20CrMoV11-1	1.4922	X20CrMoV11-1	1.4922
11	Handwheel	EN-GJS-400-15	0.7040	EN-GJS-400-15	0.7040	EN-GJS-400-15	0.7040
15	Packing	Graphite		Graphite		Graphite	
16	Stud bolt	21CrMoV5-7	1.7709	21CrMoV5-7	1.7709	21CrMoV5-7	1.7709
17	Hex.nut	25CrMo4	1.7218	25CrMo4	1.7218	25CrMo4	1.7218
25	Screwed bush	CuAl10Fe3Mn2F60	2.0936	CuAl10Fe3Mn2F60	2.0936	CuAl10Fe3Mn2F60	2.0936
		34CrAlMo5	1.8507	34CrAlMo5	1.8507	34CrAlMo5	1.8507

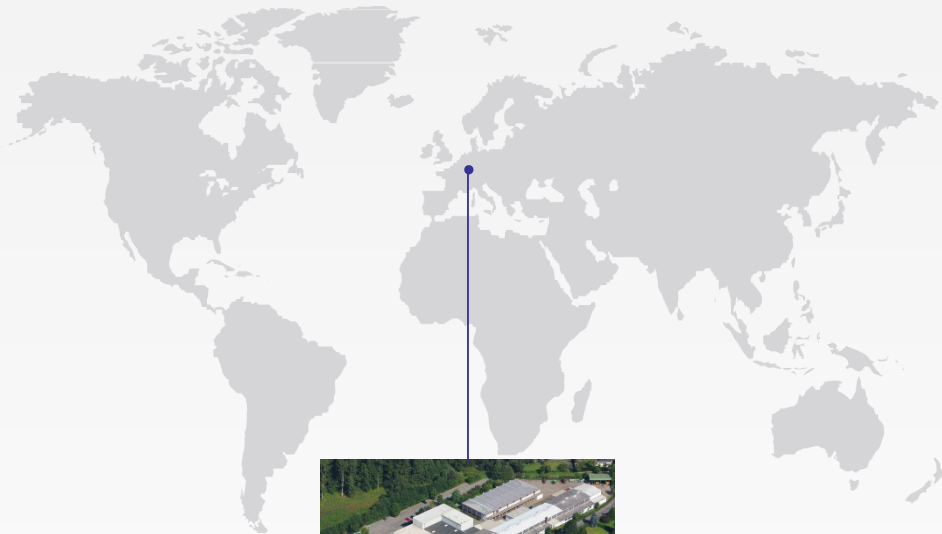
Special materials on request

\* Pressure-temperature-rating see appendix

## Specification

Marking	EN19, AD-A4, CE
Face-to-face dimensions	
Butt weld ends	Manufacturer standard
Socket weld ends	Manufacturer standard
Connections	
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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