

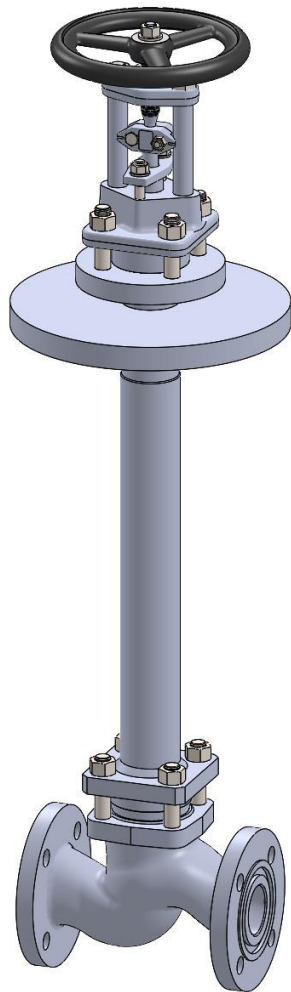


PHÖNIX

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Phönix Ltd



Globe Valve

Type 919

PN 40

Phönix Valve Group
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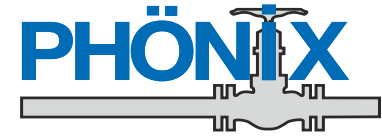
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Globe valve / Type 919 for cryogenic application

PN40 DN15 - DN150



CE 0525

Design

Long isolating distance and extractable displacer for use in refrigerating circuits and air separation plans

Stuffing box

Additional back seat at fully opened valve as secondary sealing

Lower stem with or without displacement body

Rotating disc with conic metal-to-metal seal

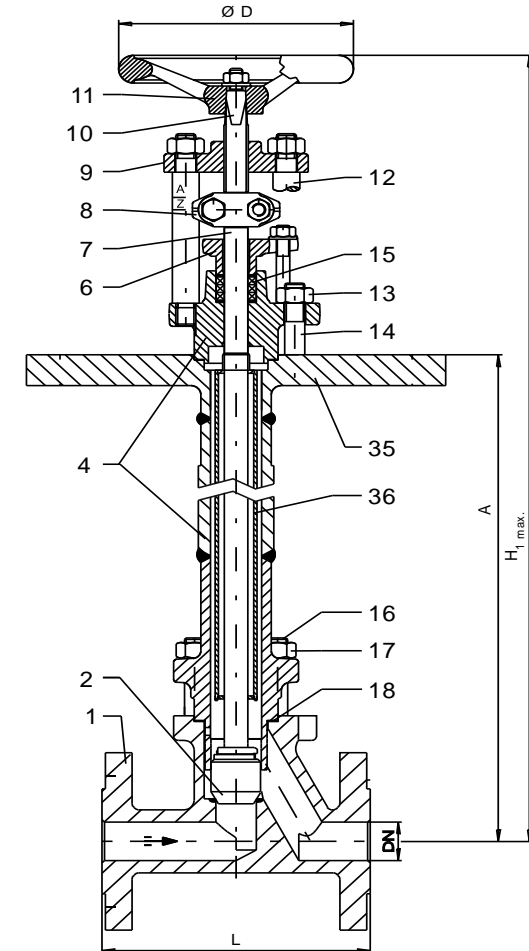
Dimensions

PN40	Size / DN	15	20	25	32	40	50	65	80	100	125	150
	L	130	150	160	180	200	230	290	310	350	400	480
H	605	605	605	670	670	670	680	930	1000	1000	1300	
D	150	150	150	200	200	200	200	250	315	315	400	
A	300	300	300	300	300	300	300	600	600	600	600	
Weight (kg)	9,5	10	11	17	19	22	31,5	41	63	98	129	

Drag coefficient / Flow coefficient

Size / DN	15	20	25	32	40	50	65	80	100	125	150
$\zeta_v [-]$	6,9	5,1	8,9	5,1	9,1	10	4,6	5	4,9	5,9	4,9
$k_v [m^3/h]$	3,4	7	8,3	18	21	31	78	113	179	256	405

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



Globe valve / Type 919 for cryogenic application

PN16/ 25/ 40 DN15 - DN150

Materials



		Stainless steel / Type 919 V	
Item	Part name	Material * from -200°C up to 400°C	DIN
1	Body	X2CrNiMo17-12-2	1.4404
	Overlay	GX5CrNiMo19-11-2 like body (≈ 200 HRB)	1.4408
2	Disc	X 6CrNiMoTi17-12-2	1.4571
	Overlay	- ***	
4	Bonnet	X2CrNiMo17-12-2	1.4404
6	Gland follower	GX5CrNiMo19-11-2	1.4408
7	Lower Stem	X6CrNiMoTi17-12-2	1.4571
8	Coupling	GX5CrNiMo19-11-2	1.4408
9	Bridge	P250GH / QPQ-nitrited	1.0460
10	Upper Stem	X17CrNi16-2	1.4057
11	Handwheel	EN-GJS-400-15	0.7040
12	Pillar	X17CrNi16-2	1.4057
13	Hex.nut	A4-70	
14	Stud bolt	A4-70	
15	Packing	PTFE-Silk**	
16	Stud bolt	A4-70	
17	Hex.nut	A4-70	
18	Bonnet gasket	Kammprofil / Stainless steel / PTFE	
35	Flange for cryogenic	X2CrNiMo17-12-2	1.4404
36	Displacement body	X2CrNiMo17-12-2	1.4404

* Pressure-temperature-rating see appendix

** ≥ 220°C Packing of pure graphite

*** on request Stellite 6 (≈ 42 HRC)

Special materials on request.

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

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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