

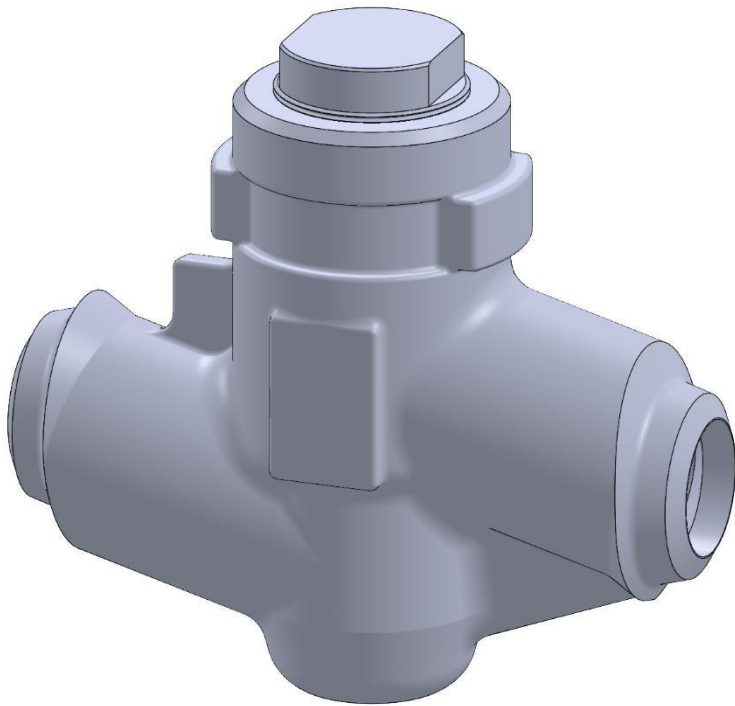


PHÖNIX

STRACK

DAUME
REGELARMATUREN

SIP Solent & Pratt
Phönix Ltd



Check Valve

Type S27

PN 100 - 630

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Piston Check Valve / Type S27

DN 15 - 50
PN 100 / 160 / 250 / 400 / 500 / 630



Design

Replaceable disc with metal-to-metal seal

Available with or without pressure spring

Opening at a differential pressure of 0,05 bar

Construction of forged components and coverless design

Dimensions of welding ends

		butt weld ends							
		DIN 3239				DIN EN 12627			
	Size / DN	15	25*	40	50**	15	25*	40	50**
PN 100	Da	22	34	49	61	22	35	50	62
	Di	17	28,5	43	54	17	29	43	54
PN 160	Da	22	34	49	61	22	35	50	62
	Di	17	27	41	52,5	17	27	41	52,5
PN 250	Da	22	35	49	61	22	35	50	62
	Di	16	26,5	38,5	45	16	27	38,5	45
PN 320	Da	22	35	49	77	22	35	50	62
	Di	15	24	36	59,5	15	24	36	43,5
PN 400	Da	28	44	61	77	22	35	50	62
	Di	17	29	40	49,5	13	22	31,5	37
PN 630	Da	34	49	77	90	22	35	50	62
	Di	18,5	25	43,5	51,5	12	18	27,5	33,5
L _{weld end}		160	160	250	250	160	160	250	250
Weight (kg)		3,5	3,5	13	13	3,5	3,5	13	13

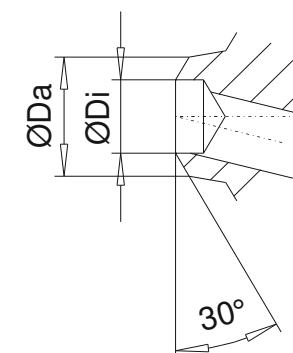
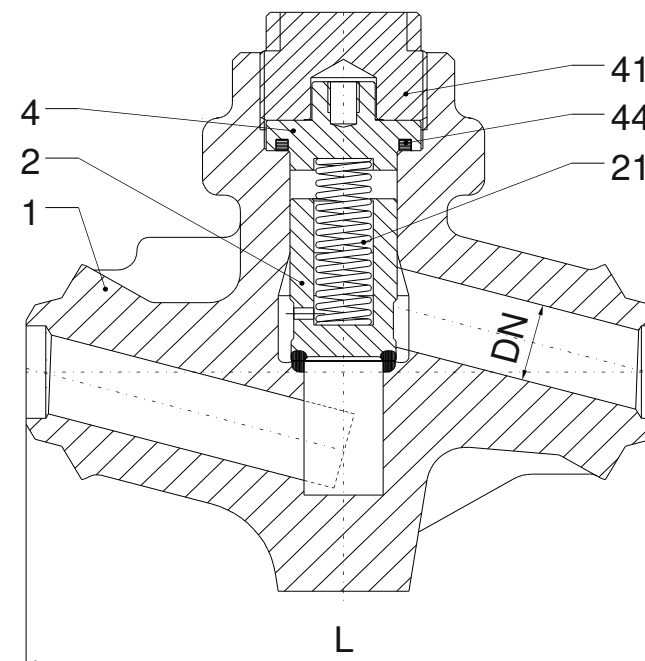
* maximum possible diameter of Da = 49mm / ** maximum possible diameter of Da = 90mm

Drag coefficient / Flow coefficient

Size / DN	15	25	40	50
ζ_v [-]	on request			
k_v [m ³ /h]				

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

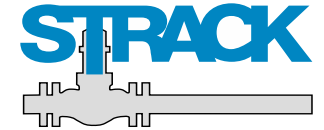
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Piston Check Valve / Type S27

PN100 / 160 / 250 / 400 / 500 / 630 DN15 - 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 / 95 bar	10CrMo9-10	1.7380					
		20 °C / 630 bar ... 650 °C / 123 bar	X10CrMoVNb9	1.4903					
	Overlay	Stellite 21 (≈ 32 HRC)			Stellite 21 (≈ 32 HRC)		Stellite 21 (≈ 32 HRC)		
2	Disc	X39CrMo17-1			1.4122	X20CrMoV11-1	1.4922	X 6CrNiMoTi17-12-2	1.4571
	Overlay	-				Stellite 6 (≈ 42 HRC)		Stellite 6 (≈ 42 HRC)	
4	Bonnet	13CrMo4-5			1.7335	13CrMo4-5	1.0566	13CrMo4-5	1.4404
21	Spring	X10CrNi18-8			1.4310	X10CrNi18-8	1.4310	X10CrNi18-8	1.4310
41	Pressure bolt	X20CrMoV11-1			1.4922	X20CrMoV11-1	1.4922	X20CrMoV11-1	1.4922
44	Gasket	Graphite				Graphite		Graphite	

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, DIN 2559

Socket weld ends DIN EN 12760

Testing standard AD-2000, DIN 3230 section 3, DIN EN 12266

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