



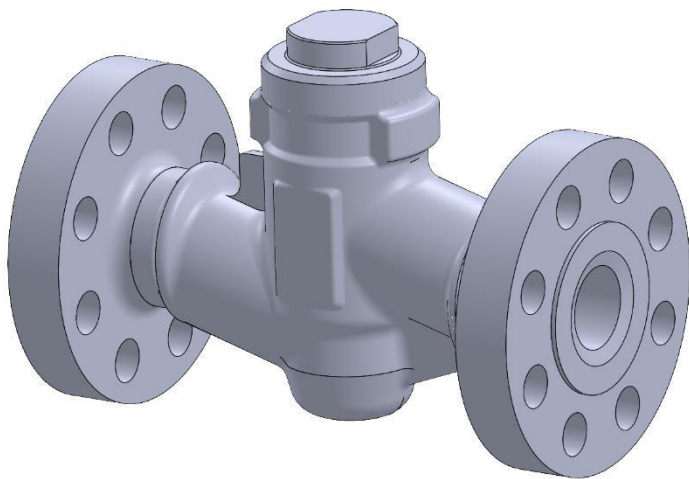
PHÖNIX

STRACK

DAUME
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Solent & Pratt
Phönix Ltd



Check Valve

Type S27

PN 160 - 400

Phönix Valve Group
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34471 Volkmarsen

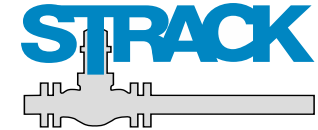
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Piston Check Valve / Type S27

DN 15 - 50
PN160 / 250 / 400



Design

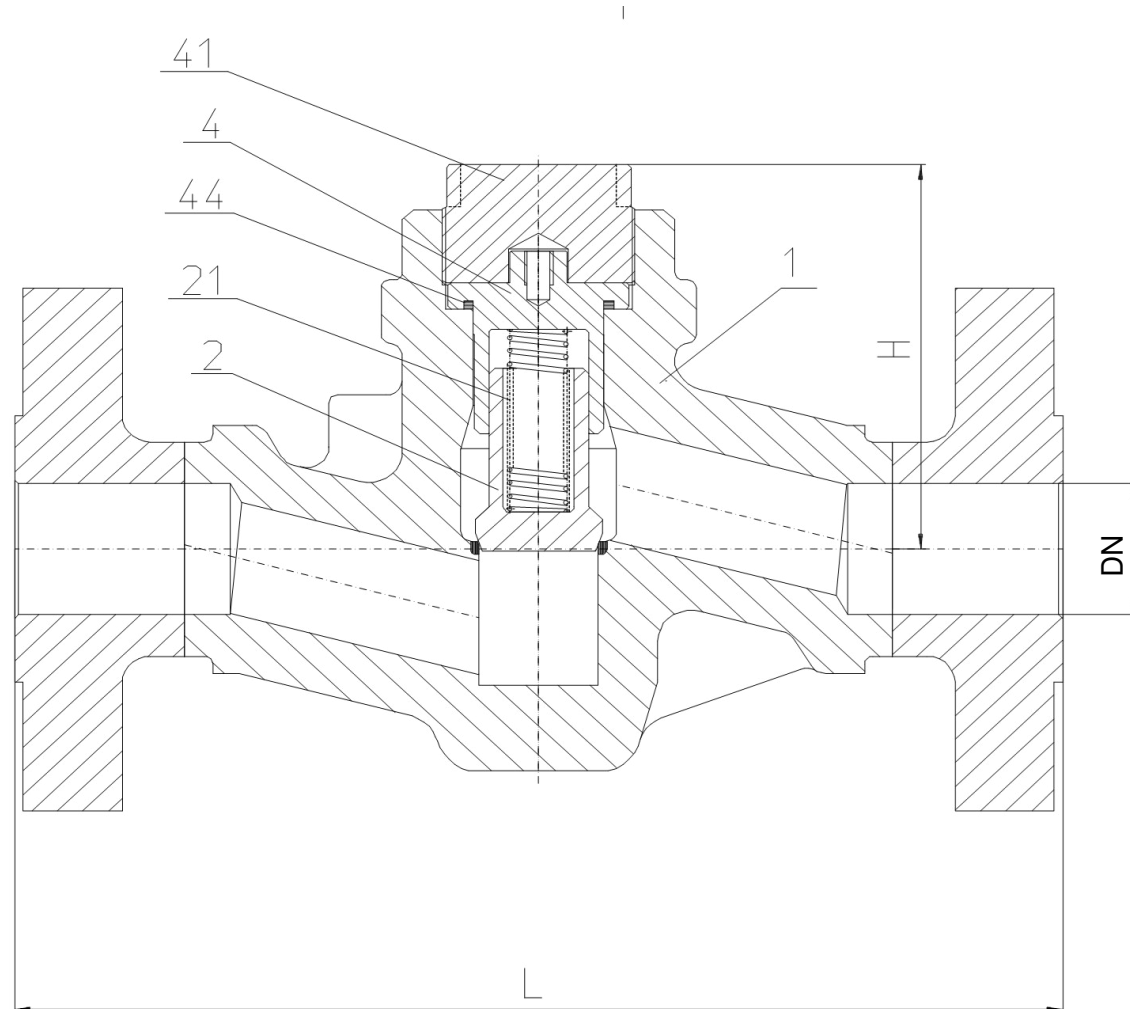
- Replaceable disc with metal-to-metal seal
- Available with or without pressure spring
- Opening at a differential pressure of 0,05 bar
- Construction of forged components and coverless design

Dimensions - Flanged Valves

PN 160 - 400	Size / DN	15	25	40	50
	L PN 160	210	230	-	300
	L PN 250	230	260	300	350
	L PN 320	230	260	300	350
	L PN 400	260	300	350	400
	H	97	97	150	150
Weight PN 400 (kg)		14,5		50	

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.

Piston Check Valve / Type S27

PN160 / 250 / 400 DN15 - DN50

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
 Flanged option Manufacturer standard

Connections
 Flanged option DIN EN 1092-1 (bis PN 100) / DIN 2638 (PN160) / DIN 2628 (PN 250) / DIN 2629 (PN320) / DIN 2627 (PN400)

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

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Printed in Germany
09/22-R0