



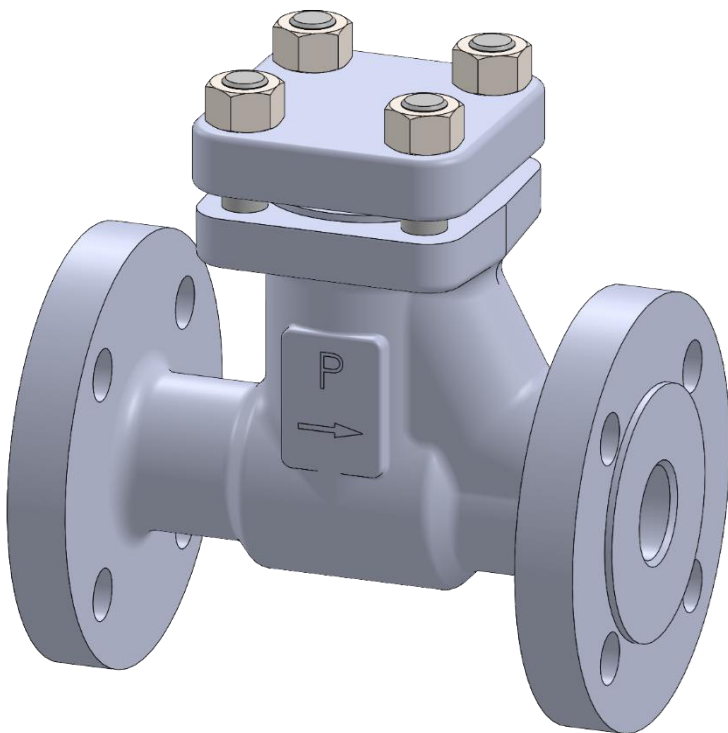
**PHÖNIX**

**STRACK**

**DAUME**  
REGELARMATUREN



**Solent & Pratt**  
Phönix Ltd



# Check Valve

## Type 420

### PN 16 - 160

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# Check Valve / Type 420

DN 15 - 250  
PN 16 / 25 / 40 / 63 / 100 / 160



## Design

Replaceable disc with flat metal-to-metal seal

Available with or without pressure spring

Opening at a differential pressure of 0,05 bar

CE 0525

## Dimensions

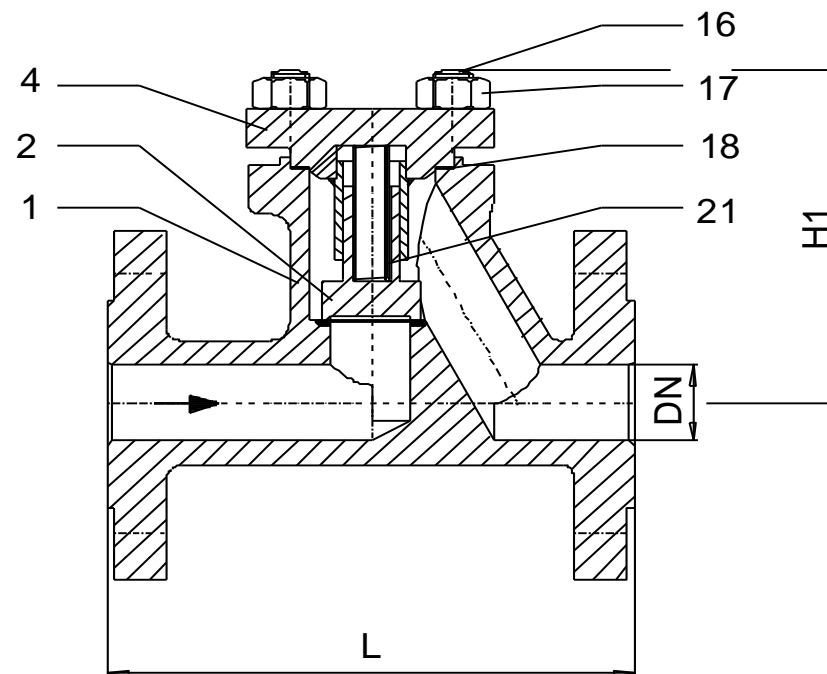
≤ PN 40	Size / DN	15	20	25	32	40	50	65	80	100	125	150	200	250
	L	130	150	160	180	200	230	290	310	350	400	480	600	730
	H	115	115	115	165	165	165	145	145	165	220	225	255	300
	D	-	-	-	-	-	-	-	-	-	-	-	-	-
	Weight ( kg )	3,6	4	4,5	10	12	15	20	28	40	66	92	190	285

PN 63	Size / DN	15	20	25	32	40	50	65	80	100	125	150	200	250
	L	210	230	230	260	260	300	340	380	430	-	550	-	-
	H	115	115	115	150	150	150	155	180	200	-	235	-	-
	D	-	-	-	-	-	-	-	-	-	-	-	-	-
	Weight ( kg )	5	6	6	12	14	16	22	30	42	-	100	-	-

PN 100-160	Size / DN	15	20	25	32	40	50	65	80	100	125	150	200	250
	L	210	230	230	260	260	300	340	380	430	-	-	-	-
	H	115	115	115	150	150	150	155	180	200	-	-	-	-
	D	-	-	-	-	-	-	-	-	-	-	-	-	-
	Weight ( kg )	5	6	6	12	14	16	22	30	42	-	-	-	-

## Drag coefficient / Flow coefficient

Size / DN	15	20	25	32	40	50	65	80	100	125	150	200	250
$\zeta_v$ [-]	6,9	5,1	8,9	5,1	9,1	10	4,6	5	4,9	5,9	4,9	5,2	5,6
$k_v$ [m <sup>3</sup> /h]	3,4	7	8,3	18	21	31	78	113	179	256	405	693	1047



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

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# Check Valve / Type 420

PN16 / 25 / 40 / 63 / 100 / 160 DN15 - DN250

## Materials



Item	Part name	Heat resistant carbon steel / Type 420 C		Low temperature steel / Type 420 T		Stainless steel / Type 420 V	
		Material * up to 450°C	DIN	Material * from -50°C up to 300°C	DIN	Material * from -200°C up to 400°C	DIN
1	Body	P250GH	1.0460	P355NL1	1.0566	X 2CrNiMo17-12-2	1.4404
		GP240GH	1.0619	G21Mn 5	1.1138	GX5CrNiMo19-11-2	1.4408
	Overlay	G 18 8Mn (≈ 200 HRB)	1.4370	G 18 8Mn (≈ 200 HRB)	1.4370	-	-
2	Disc	X20Cr13	1.4021	X 6CrNiMoTi17-12-2	1.4571	X 6CrNiMoTi17-12-2	1.4571
		P250GH	1.0460	P355NL1	1.0566	X 6CrNiMoTi17-12-2	1.4571
	Overlay	G Z 13 (≈ 300 HRB)	1.4009	Stellite 6 (≈ 42 HRC)		Stellite 6 (≈ 42 HRC)	
4	Bonnet	P250GH	1.0460	P355NL1	1.0566	X 2CrNiMo17-12-2	1.4404
		GP240GH	1.0619	G21Mn 5	1.1138	X 2CrNiMo17-12-2	1.4404
16	Stud bolt	21CrMoV5-7	1.7709	A4-70		A4-70	
17	Hex.nut	25CrMo4	1.7218	A4-70		A4-70	
18	Bonnet gasket	Graphite + S.S.		Graphite + S.S.		Graphite + S.S.	
21	Compression spring	X 6CrNiMoTi17-12-2	1.4571	X 6CrNiMoTi17-12-2	1.4571	X 6CrNiMoTi17-12-2	1.4571

Special materials on request.

\* Pressure-temperature-rating see appendix

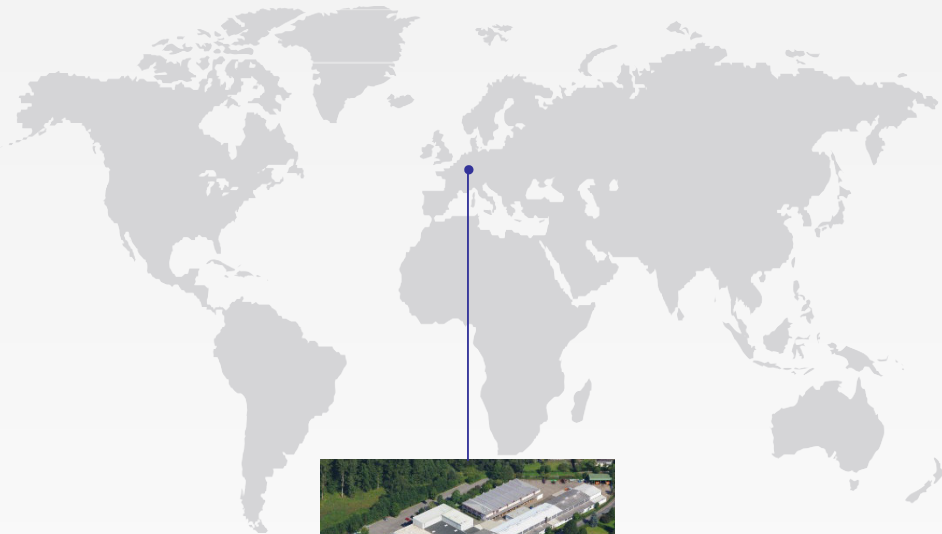
## Specification

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 / DIN 2512 PN160
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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