

SEPAK INDUSTRIES PTY LTD
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Check Valves

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Check Valve



Applications

- A check valve is a valve that prevents the fluid from flowing back and ensures that it flows in only one direction.
- It can be used to prevent the loss of prime of the pump and to avoid pipe-hammering.
- It is used in the food-processing, beverages, wine-making, oil-making, cosmetics, pharmaceutical and chemical industries.



Operating principle

- The valve opens when the pressure of the fluid exceeds the pressure exerted by the pump spring. When the two pressures are equalised, the valve closes. A stronger counter-pressure allows the valve to close.



Design and features

- Available in sizes DN-25/1" to 100/4"
- Easy disassembly.
- Low-size construction.
- DIN-11851 connections (standard)



Materials

- Casing/shaft AISI 316L
- Spring AISI 301
- Seal EPDM according to FDA
177.2600
- Surface finishing Ra < 0.8 μ m

Options

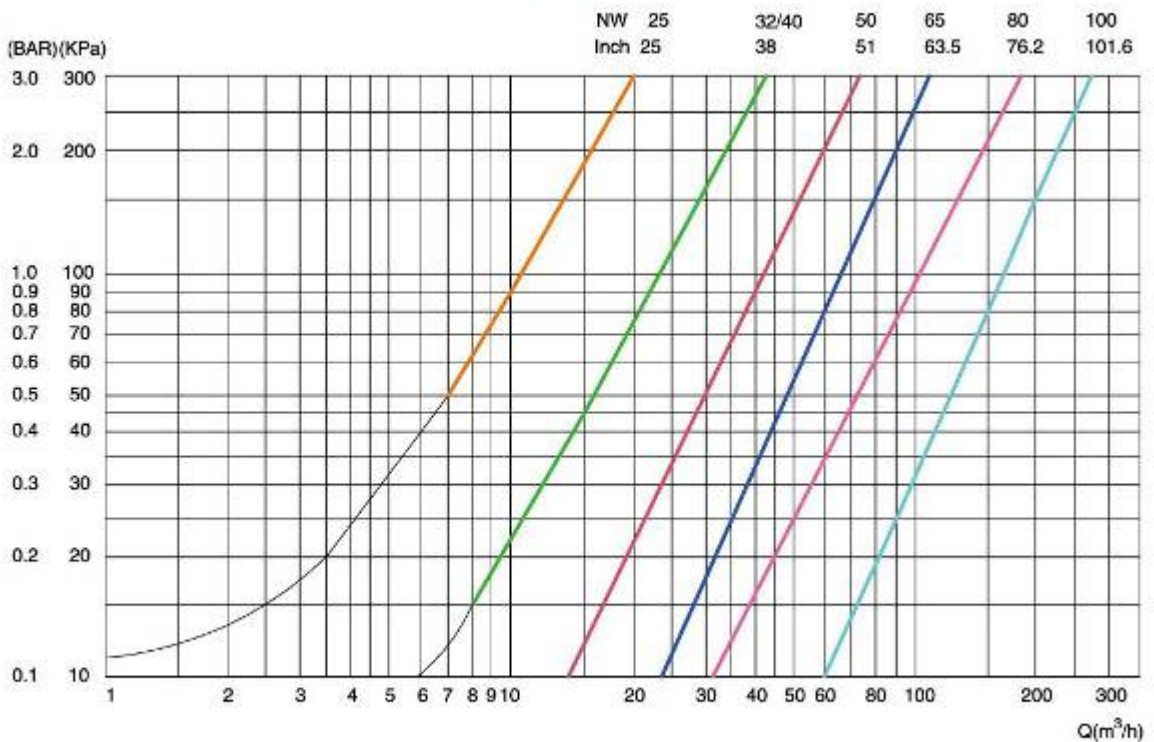
Seals in NBR, FPM (Viton) or PTFE. All of them according to FDA 177.2600
 Connections: weld, thread, clamp, DIN, SMS, RJT, IDF, ISO,3A



Technical specifications

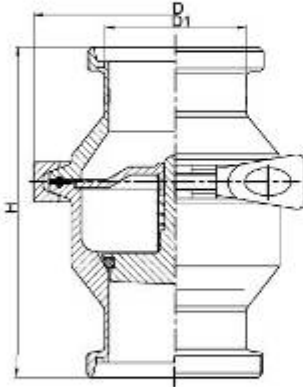
- Max. pressure 10 bar
- Opening pressure: 0.3 bar (DN-25)
 0.2 bar (DN-32/40)
 0.1 bar (DN-50/100)
- Working temperature -10°C to +120°C (EPDM)

Check Valve Curve



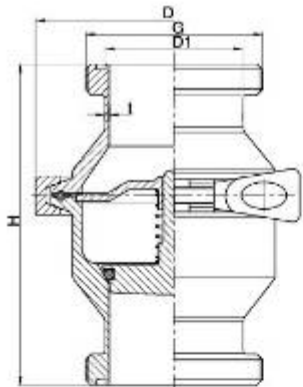
Check Valve





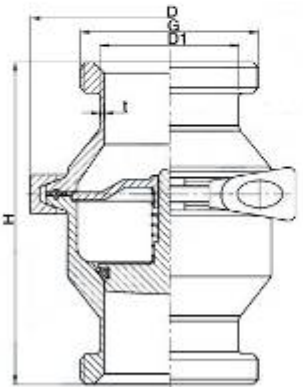
No.20101 Threaded check valve(DIN)

SIZE	H	D1		D	t	G(RD)
		1	2			
DN15	105.5	18	19	72	1.5	33.5x1/8
DN20	109.5	22	23	72	1.5	43.5x1/8
DN25	111.5	28	29	72	1.5	51.5x1/8
DN32	116.5	34	35	87	1.5	57.5x1/8
DN40	116.5	40	41	87	1.5	64.5x1/8
DN50	130	52	53	100	1.5	77.5x1/8
DN65	142.5	70	-	115	2.0	94.5x1/8
DN80	155.5	85	-	128	2.0	109.3x1/4
DN100	182.5	104	-	164	2.0	129.3x1/4



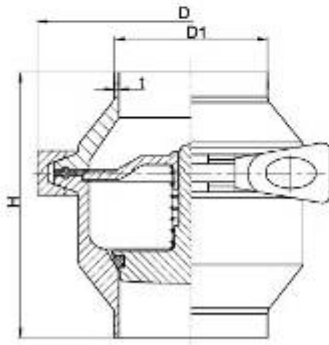
No.20102 Threaded check valve(SMS)

SIZE	H	D	D1	t	G(RD)
3/4"	109.5	72	19	1.5	35.5x1/8
1"	109.5	72	25.4	1.5	39.5x1/8
1 1/4"	112.5	87	31.8	1.5	59.5x1/8
1 1/2"	116.5	87	38.1	1.5	69.5x1/8
2"	128	100	50.8	1.5	84.5x1/8
2 1/2"	144.5	115	63.5	2.0	97.3x1/8
3"	155.5	128	76.2	2.0	104.3x1/8
3 1/2"	157.5	128	89	2.0	124.3x1/4
4"	180.5	164	101.6	2.0	131.3x1/8



No.20117 Threaded check valve(3A)

SIZE	H	D1	t	G
1"	106	25.4	1.65	37.13x1/8 Acme
1 1/4"	113	31.8	1.65	45.9x1/8 Acme
1 1/2"	113	38.1	1.65	50.65x1/8 Acme
2"	126	50.8	1.65	64.1x1/8 Acme
2 1/2"	141	63.5	1.65	77.6x1/8 Acme
3"	152	76.2	1.65	91.1x1/8 Acme
4"	167	101.6	2.1	119.25x1/8 Acme



No.20109

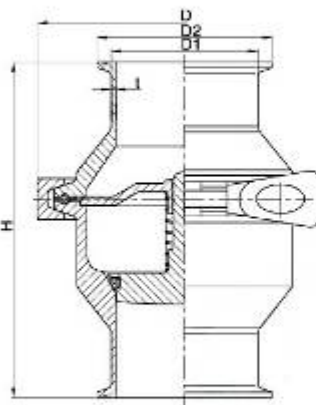
Welded check valve(DIN)

SIZE	H	D1		D	t
		1	2		
DN15	71.5	18	19	72	1.5
DN20	71.5	22	23	72	1.5
DN25	71.5	28	29	72	1.5
DN32	76.5	34	35	87	1.5
DN40	76.5	40	41	87	1.5
DN50	88	52	53	100	1.5
DN65	96.5	70	-	115	2.0
DN80	105.5	85	-	128	2.0
DN100	126.5	104	-	164	2.0

No.20110

Welded check valve(3A SMS ISO IDF DS)

SIZE	H	D1	D
3/4"	71.5	19	72
1"	71.5	25.4	72
1 1/4"	76.5	31.8	87
1 1/2"	76.5	38.1	87
2"	88	50.8	100
2 1/2"	96.5	63.5	115
3"	105.5	76.2	128
3 1/2"	105.5	89	128
4"	126.5	101.6	164



No.20113

Clamped check valve(DIN)

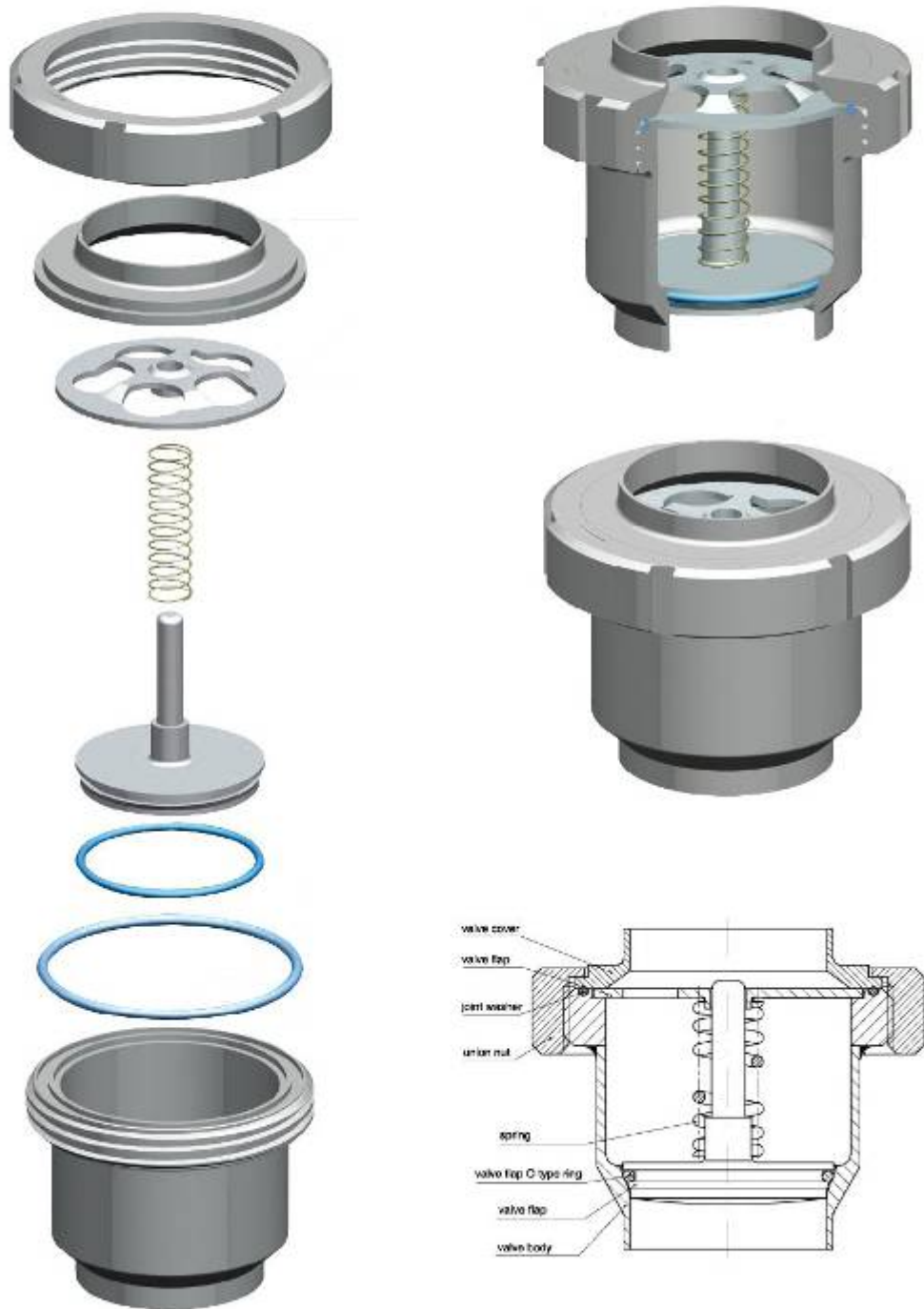
SIZE	H	D1		D2	D	t
		1	2			
DN15	107.5	18	19	34	72	1.5
DN20	107.5	22	23	34	72	1.5
DN25	114.5	28	29	50.5	72	1.5
DN32	118.5	34	35	50.5	87	1.5
DN40	118.5	40	41	50.5	87	1.5
DN50	131	52	53	64	100	1.5
DN65	139.5	70	-	91	115	2.0
DN80	148.5	85	-	106	128	2.0
DN100	169.5	104	-	119	164	2.0

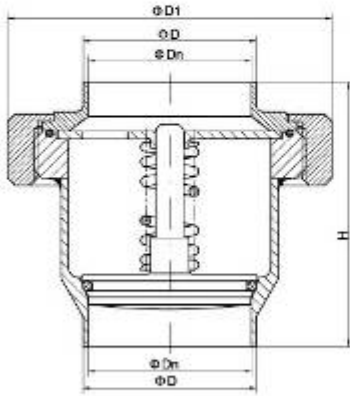
No.20114

Clamped check valve(3A SMS ISO IDF DS)

SIZE	H	D1	D2	D
3/4"	71.5	19	25.4	72
1"	71.5	25.4	50.5	72
1 1/4"	76.5	31.8	50.5	87
1 1/2"	76.5	38.1	50.5	87
2"	88	50.8	64	100
2 1/2"	96.5	63.5	77.5	115
3"	105.5	76.2	91	128
3 1/2"	105.5	89	106	128
4"	126.5	101.6	119	164

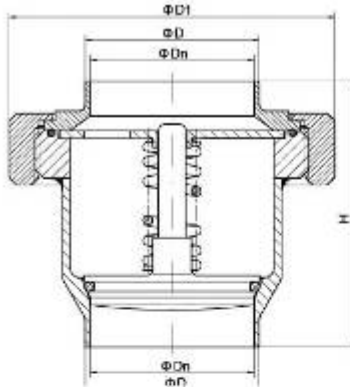
Check valve with union-type valve body





No.20120 Check valve with clamp-type valve body(DIN)

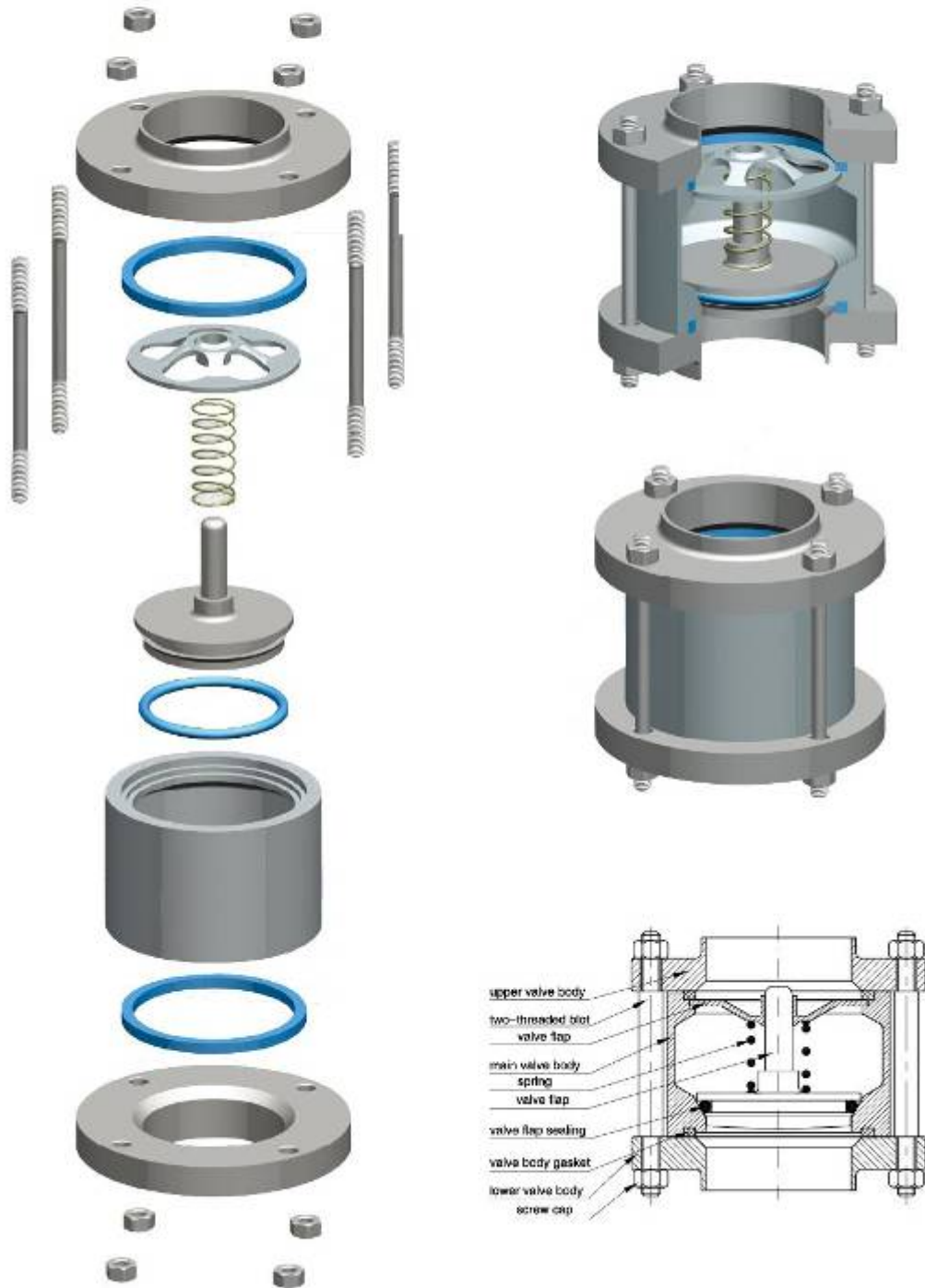
规格	ϕDn	ϕD	$\phi D1$	H
DN25	25	28	70	65
DN32	31	34	78	70
DN40	37	40	92	76
DN50	49	52	110	87
DN65	66	70	125	107
DN80	81	85	146	117
DN100	100	104	178	131

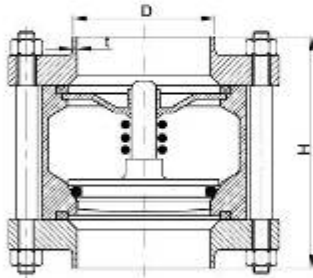


No.20121 Check valve with clamp-type valve body(SMS)

规格	ϕDn	ϕD	$\phi D1$	H
$\phi 25$	22.4	25.4	70	65
$\phi 32$	28.8	31.8	78	70
$\phi 38$	35.1	38.1	92	76
$\phi 51$	47.8	50.8	110	87
$\phi 63$	59.5	63.5	125	107
$\phi 76$	72.2	76.2	146	117
$\phi 89$	85	89	146	117
$\phi 102$	97.6	101.6	178	131

Three-piece check valve (flange type)

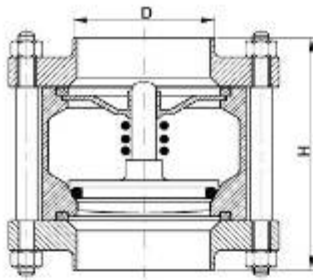




No.20122

DIN flanged check valve

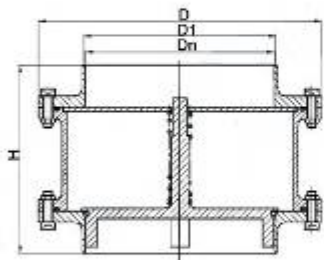
SIZE	H	D1		t
		1	2	
DN15	70	18	19	1.5
DN20	70	22	23	1.5
DN25	70	26	29	.5
DN32	75	34	35	1.5
DN40	75	40	41	1.5
DN50	85	52	53	1.5
DN65	95	70	-	2.0
DN80	106	85	-	2.0
DN100	120	104	-	2.0



No.20123

Inch flanged check valve

SIZE	H	D
3/4"	70	19
1"	70	25.4
1 1/8"	75	31.8
1 1/2"	75	38.1
2"	85	50.8
2 1/2"	95	63.5
3"	106	76.2
3 1/2"	106	89
4"	120	101.6



No.20124

DIN three-type check valve

SIZE	H	D	D1	Dn
DN125	150	206	129	125
DN150	156	236	154	150
DN200	200	300	204	200

INCH

SIZE	H	D	D1
5"	150	206	127
6"	156	236	152.4
8"	200	300	203.2