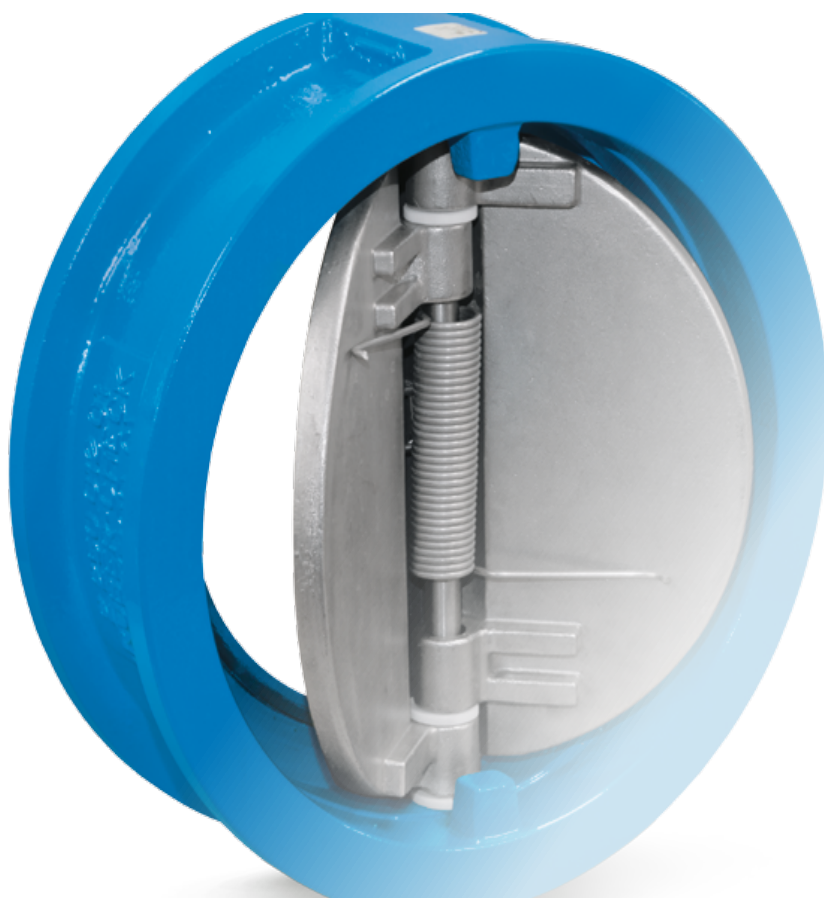


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ERHARD ECR CHECK VALVE

The compact check valve for clamping

The ERHARD ECR check valve is clamped between two flanges as a reflux preventer. It has two vanes which, for example, open on starting a pump and will immediately close upon switching off the pump through the pressure exerted by the head of water and the spring restoring force. The check valve can both be installed in horizontal and vertical pipelines and is suitable for temperatures from -10 °C to +60 °C.

- Opening pressure for all nominal sizes: 10 - 14 mbar
- Required back pressure to absolute tightness: 0,7 bar
- Allowable flow rates: 0,5 - 4 m/s
- Medium: clean water



ERHARD ECR CHECK VALVE PN 10

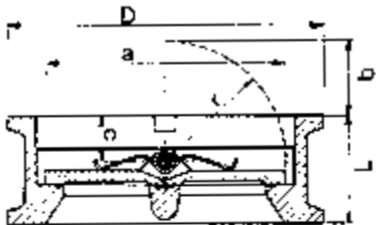
Dimensions

Nominal size DN	face-to-face-dim. ¹⁾ L mm	Outside-ø D mm	Dimensions disc swung			Weight approx. kg	Volume m³
			a mm	b mm	r mm		
450	152	541	420	152	217	100	0,045
500	152	596	480	175	247	120	0,059
600	178	698	585	222	299	180	0,096

Materials and fittings²⁾

	Material versions	
Nominal sizes	DN 450-600	DN 450-600
Body	Lamellar graphite cast iron EN-JL1040	
Valve discs	Spheroidal graphite cast iron EN-JS1030/EN-JS1030 ³⁾	Stainless steel
Sealing for seat ²⁾	NBR/Buna N	NBR/Buna N
Shaft	Stainless steel	
Spring ²⁾	Stainless steel	
Protection against corrosion	EKB fusion bonded epoxy, "blue"	

1) According to DIN EN 558-1, FTF, section 16 (DIN 3202, section K3)
2) Other materials on request
3) Usually the ECR check valve is suitable for installation in a horizontal and vertical pipe (with flow from the bottom to the top). For mounting position in a vertical pipe with the flow from the top to the bottom a design with reinforced spring is required. Please order then design "A52".



ERHARD ECR CHECK VALVE PN 16

Dimensions

Nominal size DN	face-to-face-dim. ¹⁾ L mm	Outside-ø D mm	Dimensions disc swung			Weight approx. kg	Volume m ³
			a mm	b mm	r mm		
40	43 ²⁾	94	55	12	33	1,3	0,0004
50	43	109	55	12	33	1,5	0,0005
65	46	129	58,5	12	33	2,4	0,0008
80	64	144	71	18	41	3,8	0,002
100	64	164	96	28	52	5,0	0,002
125	70	194	125	35	70	6,8	0,003
150	76	220	128	33	70	8,0	0,004
200	89	275	192	60	104	15,0	0,007
250	114	330	244	81	126	28,0	0,013
300	114	380	295	100	153	34,0	0,017
350	127	440	320	108	168	53,0	0,025
400	140	491	380	137	195	70,0	0,034
450	152	558	420	152	217	100,0	0,045
500	152	620	480	175	247	120,0	0,059
600	178	735	585	222	299	180,0	0,096

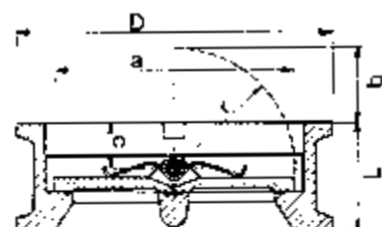
Materials and fittings³⁾

Nominal sizes	Material versions		
	DN 40-100	DN 125-600	DN 40-600
Body DN 40-400 Body DN 450-600	Lamellar graphite cast iron EN-JL1040 Spheroidal graphite cast iron EN-JS1030		No. 5703 0700 No. 5703 5600
Valve disc DN 40-400 Valve disc DN 450-600	Messing	Spheroidal graphite Cast iron EN-JS1030 Casted steel GS-C25N	Stainless steel
Sealing for seat ³⁾	NBR/Buna N	NBR/Buna N	NBR/Buna N
Shaft	Stainless steel		
Spring ³⁾	Stainless steel		
Protection against corrosion	EKB fusion bonded epoxy, "blue"		

1) According to DIN EN 558-1, FTF, section 16 (DIN 3202, section K3)

2) DN 40 not according to EN 558-1, FTF, section 20 (DIN 3202, section K3)

3) Other materials on request



ERHARD ECR CHECK VALVE PN 25

Dimensions

Nominal size DN	face-to-face-dim. ¹⁾ L mm	Outside-ø D mm	Dimensions disc swung			Weight approx. kg	Volume m ³
			a mm	b mm	r mm		
40	43 ²⁾	94	55	12	33	1,3	0,0004
50	43	109	55	12	33	1,5	0,0005
65	46	129	58,5	12	33	2,4	0,0008
80	64	144	71	18	41	3,8	0,002
100	64	164	96	28	52	5,0	0,002
125	70	194	125	35	70	6,8	0,003
150	76	220	128	33	70	8,0	0,004
200	89	284	192	60	104	15,0	0,007
250	114	341	244	81	126	28,0	0,013
300	114	403	295	100	153	34,0	0,017
350	127	460	320	108	168	53,0	0,025
400	140	516	380	137	195	70,0	0,034

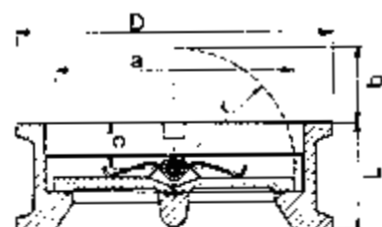
Materials and fittings³⁾

	Material versions	
Nominal sizes	DN 40-400	DN 125-400
Body DN 40-400	Spheroidal graphite cast iron EN-JS1030	
Valve disc	Stainless steel	Casted steel GS-C25N
Sealing for seat ³⁾	NBR/Buna N	NBR/Buna N
Shaft	Stainless steel	
Spring ³⁾	Stainless steel	
Protection against corrosion	EKB fusion bonded epoxy, "blue"	

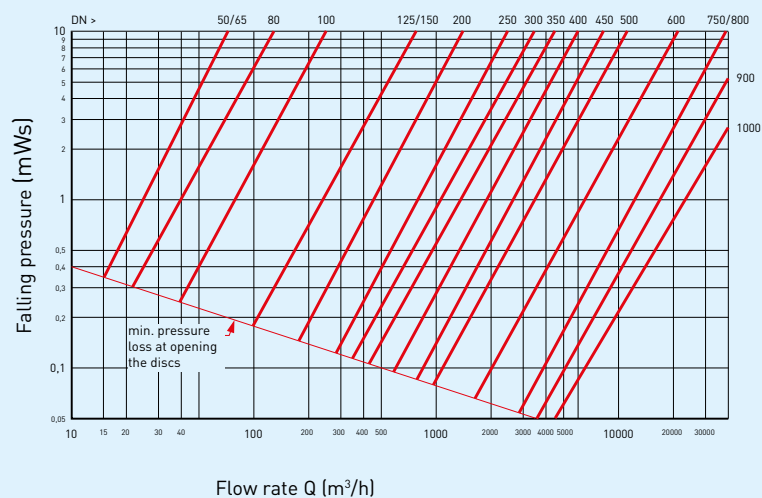
1) According to DIN EN 558-1, FTF, section 16 (DIN 3202, section K3)

2) DN 40 not according to EN 558-1, FTF, section 20 (DIN 3202, section K3)

3) Other materials on request



FALLING PRESSURE



The curves represent the valves, mounting position in a horizontal pipe with vertical standing discs.



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