

GEMÜ RSK

Plastic check valve



Features

- Weight and space-saving construction
- Short length
- Simple construction
- Option with return spring

Description

GEMÜ RSK is a plastic check valve with integrated flange seal. The valve body, disc and seal are available in various materials. The GEMÜ RSK is clamped between two flanges during installation. The centring is based on the outside diameter of the housing

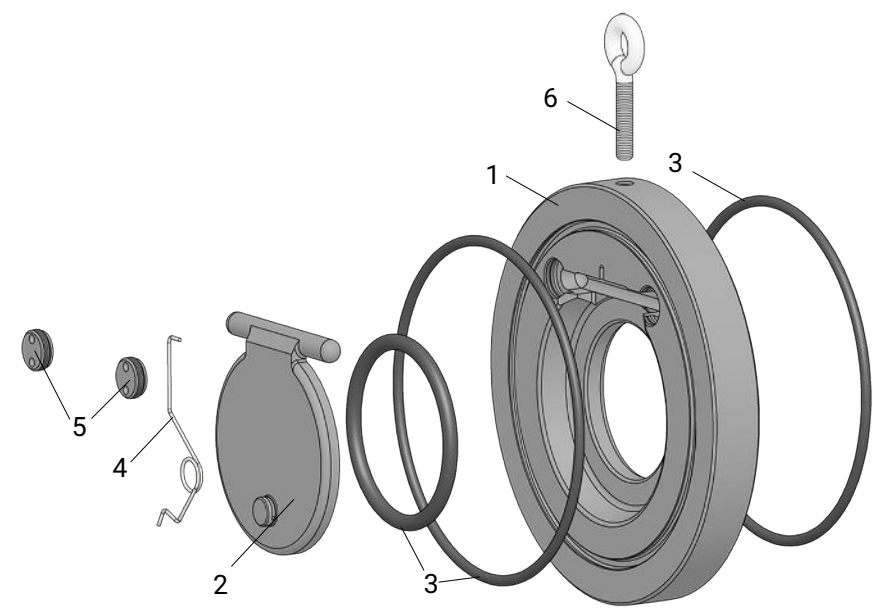
Technical specifications

- Media temperature *: -10 to 120 °C
- Operating pressure*: 1 to 10 bar
- Nominal sizes: DN 32 to 600
- Conformities: EAC

* depending on version and/or operating parameters



Product description



Item	Name	Materials
1	Body	PVC-U grey, PP, PVDF
2	Disc	PVC-U grey, PP, PVDF
3	Seal (O-ring)	NBR, EPDM, FPM, PTFE (encapsulated)
4	Spring	1.4571, Hastelloy
5	Screws	PVC-U grey, PP, PVDF
6	Eye bolt	1.4571

Order data

Order codes

1 Type	Code
Check valve	RSK

2 DN	Code
DN 32	0032
DN 40	0040
DN 50	0050
DN 65	0065
DN 80	0080
DN 100	0100
DN 125	0125
DN 150	0150
DN 200	0200
DN 250	0250
DN 300	0300
DN 350	0350
DN 400	0400
DN 450	0450
DN 500	0500
DN 600	0600

3 Operating pressure	Code
3 bar	0
6 bar	1
10 bar	2
5 bar	7
8 bar	8

4 Connection type	Code
Flange EN 1092 / PN 6	1
Flange EN 1092 / PN 10	2
ANSI B16.5, Class 150	D

5 Body material	Code
PVC-U	1
PP	5
PVDF	20

6 Disc material	Code
PVC	1
PP	5
PVDF	20

7 Seal material	Code
NBR	2
FPM	4
PTFE	5
EPDM	14

8 Spring return	Code
Without return spring	F0
Spring 1.4571	F1
Spring Hastelloy	F2

9 Type of design	Code
Without	
Valve free of oil and grease, media wetted area cleaned and packed in PE bag	0107

Order example

Order option	Code	Description
1 Type	RSK	Check valve
2 DN	0100	DN 100
3 Operating pressure	1	6 bar
4 Connection type	2	Flange EN 1092 / PN 10
5 Body material	5	PP
6 Disc material	5	PP
7 Seal material	5	PTFE
8 Spring return	F0	Without return spring
9 Type of design		Without

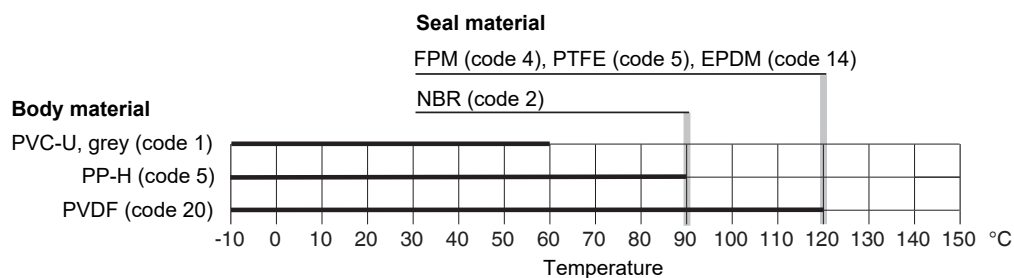
Technical data

Medium

Working medium: Corrosive, inert, gaseous and liquid media which have no negative impact on the physical and chemical properties of the body, disc and seal material.

Temperature

Media temperature:



Pressure

Operating pressure:

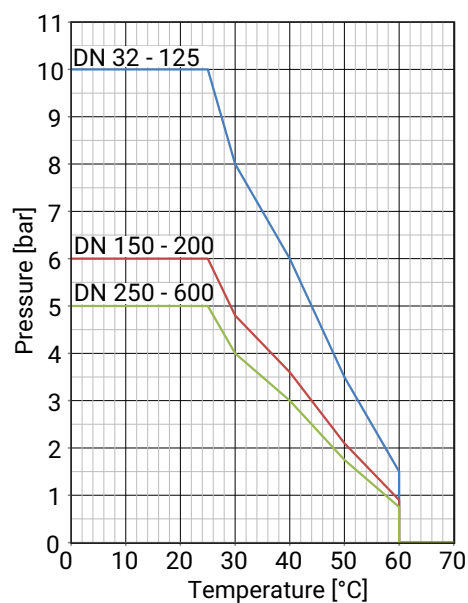
DN	Material code ¹⁾		
	1	5	20
32	10	8	10
40	10	8	10
50	10	8	10
65	10	8	10
80	10	6	10
100	10	6	10
125	10	6	10
150	6	6	8
200	6	6	8
250	5	5	5
300	5	5	5
350	5	5	5
400	5	5	5
450	5	5	5
500	5	5	5
600	5	5	5

Pressures in bar

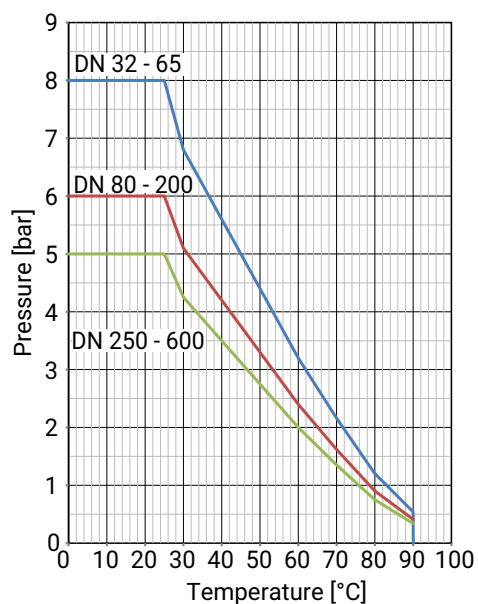
- 1) **Body material**
Code 1: PVC-U
Code 5: PP
Code 20: PVDF

Pressure/temperature
diagram:

Body material PVC-U, grey (Code 1)

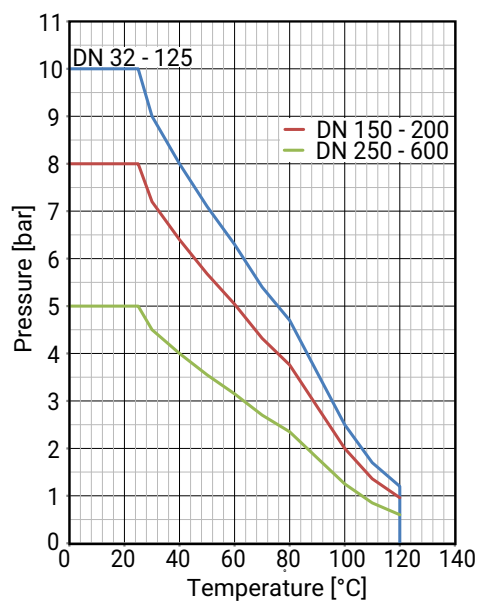


Body material PP (Code 5)

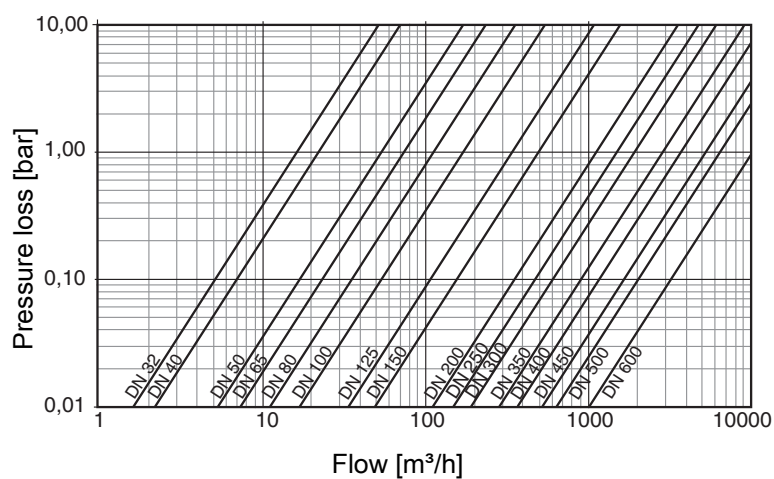


**Pressure/temperature
diagram:**

Body material PVDF (Code 20)



Pressure loss:



The diagram values are valid for water at 20 °C.
Please contact GEMÜ for the calculation of other fluids.

Pressure for disc opening:

DN	Piping	
	Horizontal	Vertical
32	1	2
40	1	2
50	1	3
65	1	3
80	1	3
100	1	3
125	1	3
150	1	3
200	1	4
250	1	4
300	1	4
350	2	5
400	3	7
450	3	8
500	5	8
600	10	11

Pressures in mbar

Kv values:

DN	Kv values
32	16.2
40	22.2
50	54
65	75
80	112
100	172
125	342
150	490
200	1128
250	1500
300	1914
350	2800
400	3700
450	4500
500	6450
600	6800

Kv values in m³/h

Mechanical data

Weight:

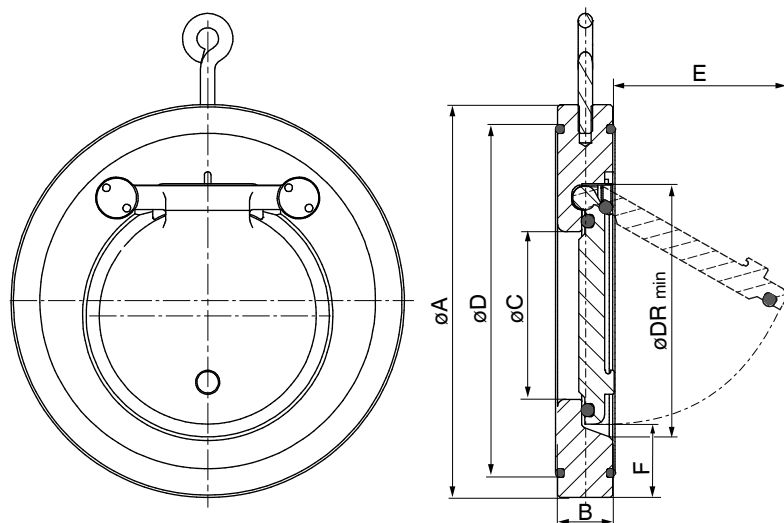
DN	Material code ¹⁾		
	1	5	20
32	0.13	0.09	0.17
40	0.16	0.1	0.21
50	0.35	0.18	0.34
65	0.35	0.23	0.43
80	0.4	0.27	0.52
100	0.56	0.38	0.72
125	0.76	0.51	0.98
150	1.12	0.76	1.44
200	2.13	1.43	2.73
250	3.54	2.44	4.56
300	5.35	3.57	6.95
350	7.56	5.16	9.76
400	11.1	7.4	14.4
450	16	12.5	21.2
500	22.85	15.2	29.6
600	39	25.5	49

Weights in kg

- 1) **Body material**
 Code 1: PVC-U
 Code 5: PP
 Code 20: PVDF

Dimensions

Design version A

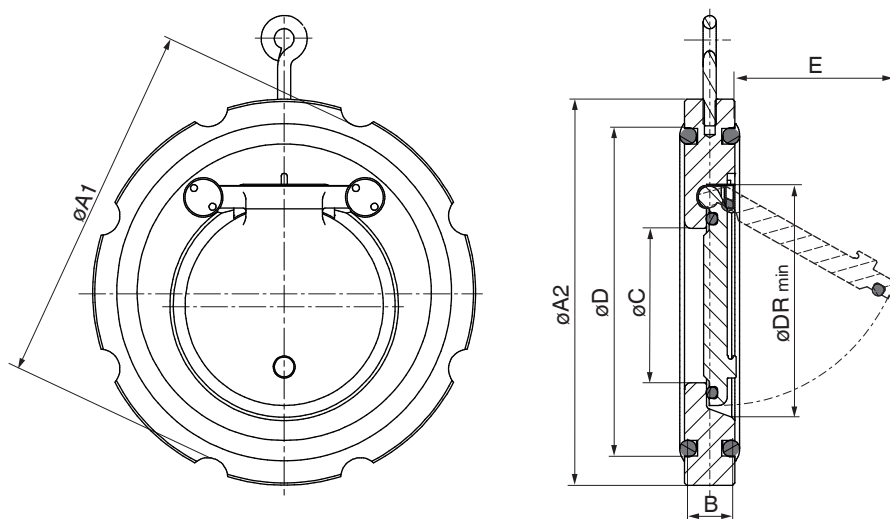


DN	øDR min.	PN 6	PN 10	ANSI 150	with spring	without spring	øC	øD	E	F
øA				B						
32	37	79	85	74	15	15	18	59	22	25
40	43	89	95	83	16	16	22	72	25	28
50	54	98	109	105	18	18	32	86	37	29
65	70	118	129	124	20	20	40	105	50	31
80	82	134	144	137	20	20	54	119	61	32
100	106	154	164*	175*	23	23	70	146*	77*	31
125	131	184	195	197	23	23	92	173	94*	35
150	159	209	220*	222*	26	26	105	197*	100*	40
200	207	264	275*	279*	34	34	154	255*	152*	38
250	260	319	330*	340*	40	40	192	312*	180*	41
300	309	375	380*	410*	45	45	227	363*	215*	41
350	341	425	440	451	49	49	266	416	245	54
400	392	475	491	514	65	65	310	467	285	55
450	443	530	541	549	68	78	350	520	330	61
500	493	580	596	606	78	87	400	550	385	58
600	595	681	698	718	97	97	486	659	470	60

Dimensions in mm

* Design version B is used as standard for these connection types and nominal sizes.

Design version B

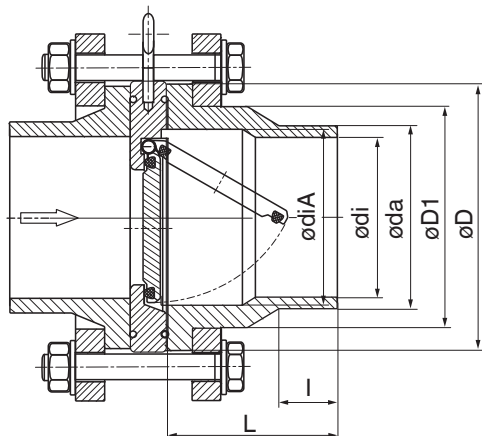


DN	ØDR min.	PN 10	ANSI 150	B	ØC	ØD	E
		ØA1	ØA2				
100	106	164	175	23	70	153	77
150	159	220	222	26	105	198.5	100
200	207	275	279	34	154	259.5	152
250	260	330	340	40	192	311.0	180
300	309	380	410	45	227	247.0	215

Dimensions in mm

Special flange adaptor

The special flange adaptor must be ordered separately.



	ØD	L	Øda	Ødi		ØdiA	I	ØD1	Item no.	
				PN 6	PN 10				PP	PE
32	80	65	40	35	32	37	30	50	88413915	-
40	90	68	50	43	41	43	30	61	88322123	88321090
50	105	74	63	54	51	54	30	77	88299955	88320179
65	125	78	75	66	61	70	30	91	88242365	88207359
80	140	87	90	79	73	82	35	109	88264813	88241582
100	160	102	110	97	90	106	35	132	88312179	88207361
125	190	125	140	124	114	130	47	166	88263989	88390510
150	215	150	160	141	130	158	52	189	88276859	88413927
200	270	200	200	177	163	206	55	249	88249170	88413934
250	325	225	250	221	204	259	63	293	88265064	88413928
300	375	255	315	280	257	308	66	337	88413916	88413929

Dimensions in mm



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