

Strainer, Plastic

Construction

The GEMÜ N570 strainer has a body made of plastic (either PVC-U or PP-H). The sealing elements are manufactured from EPDM and FKM. Contaminants in the medium are retained by the integrated filter insert.

Features

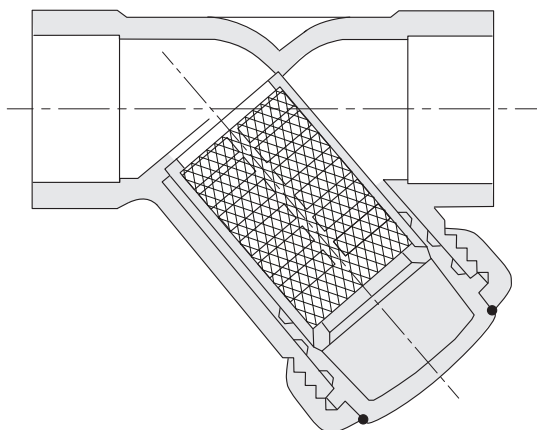
- Corrosion-resistant materials
- Various connections are available (spigots, threaded sockets, solvent cement/welded sockets, flanges)
- Filter inserts made from PP-H, PVC-U or stainless steel (different mesh sizes available for each)

Advantages

- Easy to service
- Low weight



Sectional view



Technical data

Working medium

Corrosive, inert and liquid media which do not adversely affect the physical and chemical properties of the relevant valve body and seal materials.

Media temperature:

PVC-U	10 to 60 °C
PP-H, grey	5 to 80 °C

Operating pressure

PVC-U at 20 °C (water)	max. 16 bar
PP-H, grey at 20 °C (water)	max. 10 bar

Ambient temperature

Valve body PVC-U	10 to 50 °C
Valve body PP-H	5 to 50 °C

Kv values [l/min]

DN	10	15	20	25	32	40	50	65	80	100
PVC-U	22	40	70	103	188	255	410	650	1050	1700
PP-H, grey	-	40	70	103	188	255	410	650	1050	1700

Kv values determined for water at 20 °C, Δp 1 bar, with a fully open valve.

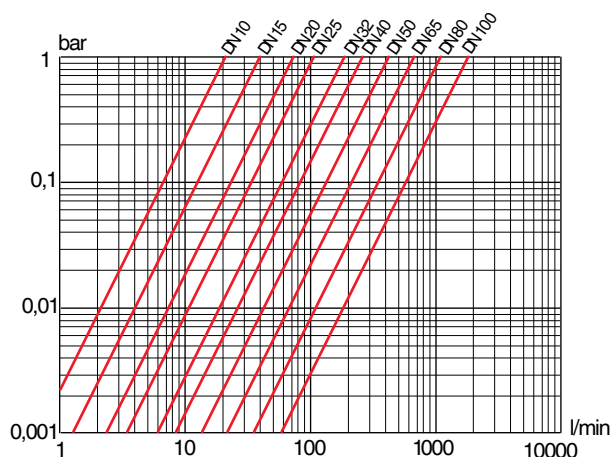
Pressure / temperature correlation

Temperature in °C (plastic body)		-20	-10	±0	5	10	20	25	30	40	50	60	70	80
Valve body material		Permissible operating pressure in bar												
PVC-U	Code 1, 3	-	-	-	-	16.0	16.0	16.0	12.8	9.6	5.6	2.4	-	-
PP-H	Code G5	-	-	-	10.0	10.0	10.0	10.0	8.5	7.0	5.5	4.0	2.7	1.5

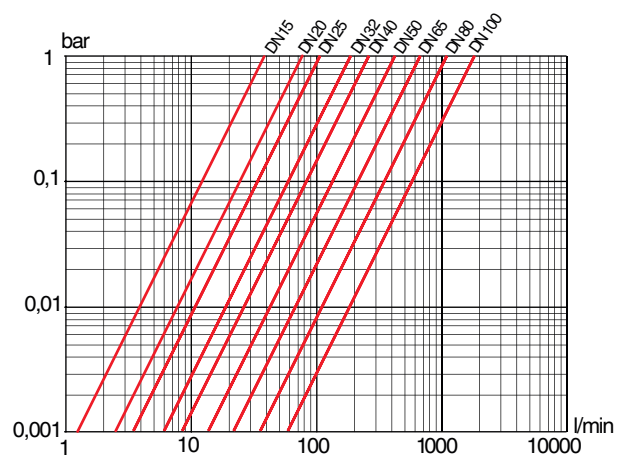
Data for extended temperature ranges on request. Please note that the ambient temperature and medium temperature generate a combined temperature at the valve body which must not exceed the above values.

Pressure loss diagram

PVC-U



PP-H, grey



Mesh spacing 1,5 mm

Filter mesh overview						
Mesh spacing [mm]	0.7	1.0	1.5	1.5	2.0	2.5
Filter material	1.4301 (Code 45)	PVC-U (Code 1)	PVC-U (Code 1)	PP (Code N5)	PVC-U (Code 1)	PVC-U (Code 1)
Number of holes [cm ²]	260	125	67	67	36	26
ASTM mesh size	45	70	40	40	35	30
Hole [µm]	370	200	420	420	550	580

Filter surface										
DN	10	15	20	25	32	40	50	65	80	100
Total At [cm ²]	16.0	16.0	23.5	36.0	53.0	69.0	101.0	197.0	247.0	396.0

Order data

Body configuration	Code
2/2-way body	D

Seal	Code
FKM	4
EPDM	14

Connection	Code
Spigots DIN	0
Threaded sockets DIN ISO 228	1
Solvent cement/welded sockets	2
Flanges EN 1092, form B	4
Flanges ANSI Class 150 FF	41
Other connections upon request	

Mesh spacing	Code
0.7	07
1.0	10
1.5	15
2.0	20
2.5	25

Valve body material	Code
PVC-U, grey	1
PVC-U, transparent	3
PP-H, grey	G5

Filter mesh	Code
PVC-U	1*
PP-H, nature	N5
1.4301	45*
* For valve body material G5 only up to DN 50 available	

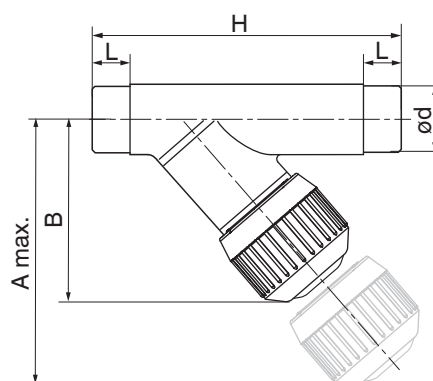
Order example	N570	25	D	2	1	4	10	1
Type	N570							
Nominal size		25						
Body configuration (code)			D					
Connection (code)				2				
Valve body material (code)					1			
Seal (code)						4		
Mesh spacing (code)							10	
Filter mesh (code)								1

N570

Dimensions [mm]

Spigots, connection code 0
Valve body material: PVC-U grey (code 1), PVC-U transparent (code 3)

DN	PN Operating pressure		ød	A max.	B	L	H	Weight [g]
	Material code 1	Material code 3						
10	16 bar	10 bar	16	125	72	14	114	110
15	16 bar	10 bar	20	125	72	16	124	120
20	16 bar	10 bar	25	145	84	19	144	190
25	16 bar	10 bar	32	165	95	22	154	285
32	16 bar	10 bar	40	190	111	26	174	400
40	16 bar	10 bar	50	210	120	31	194	600
50	16 bar	10 bar	63	240	139	38	224	945



Dimensions [mm]

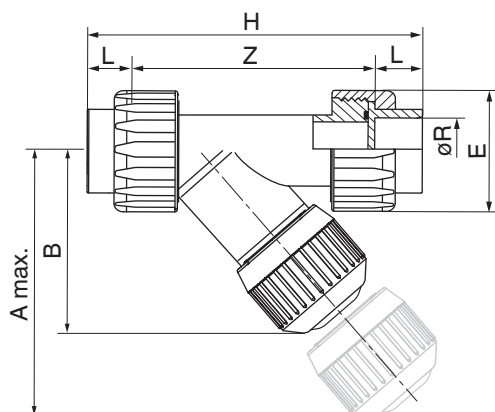
Threaded sockets, connection code 1 Valve body material: PVC-U grey (code 1), PVC-U transparent (code 3)

DN	PN Operating pressure		øR	A max.	B	E	L	Z	H	K	Weight [g]
	Material code 1	Material code 3									
10	16 bar	16 bar	3/8"	125	72	55	11.4	112.2	135	-	206
15	16 bar	16 bar	1/2"	125	72	55	15.0	113.0	143	-	210
20	16 bar	16 bar	3/4"	145	84	66	16.3	127.4	160	-	355
25	16 bar	16 bar	1"	165	95	75	19.1	144.8	183	-	522
32	16 bar	10 bar	1 1/4"	190	111	87	21.4	171.2	214	-	742
40	16 bar	10 bar	1 1/2"	210	120	100	21.4	192.2	235	-	1106
50	16 bar	10 bar	2"	240	139	120	25.7	233.6	285	-	1873
65	10 bar	6 bar	2 1/2"	300	179	104	30.2	182.6	243	96	2385
80	6 bar	4 bar	3"	325	192	116	33.3	195.4	262	105	2965
100	6 bar	4 bar	4"	385	231	138	39.3	246.4	325	-	4405

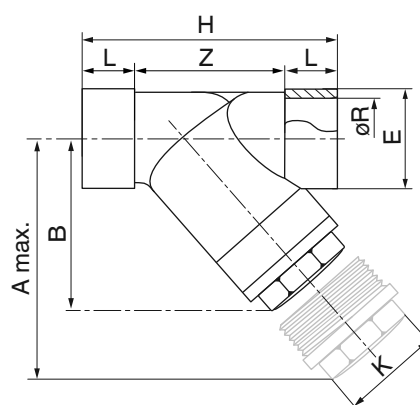
Threaded sockets, connection code 1 Valve body material: PP-H grey (code G5)

DN	PN Operating pressure	øR	A max.	B	E	L	Z	H	Weight [g]
15	10 bar	1/2"	125	71.0	55	15.0	113.0	143	148
20	10 bar	3/4"	145	83.0	65	16.3	127.4	160	195
25	10 bar	1"	165	94.0	74	19.1	144.8	183	297
32	10 bar	1 1/4"	190	109.0	86	21.4	171.2	214	475
40	10 bar	1 1/2"	210	119.0	99	21.4	192.2	235	675
50	10 bar	2"	240	142.5	120	25.7	233.6	285	1100

DN 10 – DN 50



DN 65 – DN 100



Dimensions [mm]

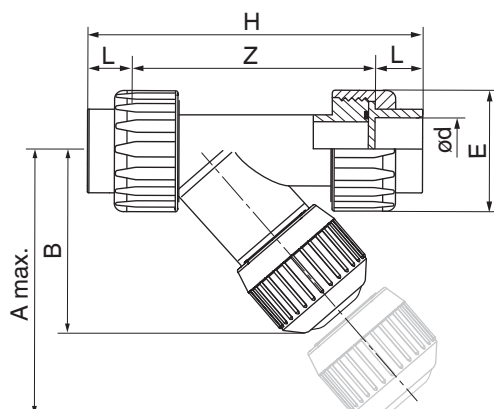
Solvent cement sockets, connection code 2 Valve body material: PVC-U grey (code 1), PVC-U transparent (code 3)

DN	PN Operating pressure		ød	A max.	B	E	L	Z	H	K	Weight [g]
	Material code 1	Material code 3									
10	16 bar	16 bar	16	125	72	55	14	107	135	-	203
15	16 bar	16 bar	20	125	72	55	16	103	135	-	211
20	16 bar	16 bar	25	145	84	66	19	120	158	-	358
25	16 bar	16 bar	32	165	95	75	22	132	176	-	526
32	16 bar	10 bar	40	190	111	87	26	155	207	-	733
40	16 bar	10 bar	50	210	120	100	31	181	243	-	1095
50	16 bar	10 bar	63	240	139	120	38	222	298	-	1843
65	10 bar	6 bar	75	300	179	104	44	155	243	96	2385
80	6 bar	4 bar	90	325	192	116	51	160	262	105	2975
100	6 bar	4 bar	110	385	231	138	61	203	325	-	4610

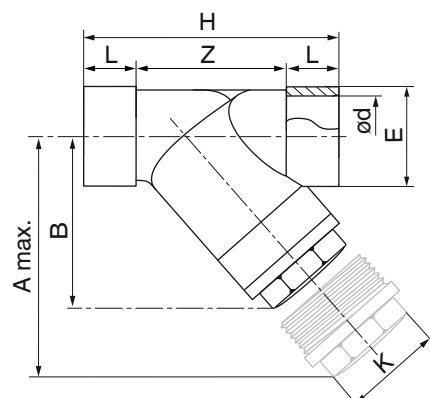
Welded sockets, connection code 2 Valve body material: PP-H grey (code G5)

DN	PN Operating pressure	ød	A max.	B	E	L	Z	H	K	Weight [g]
15	10 bar	20	125	71.0	55	14.5	108.5	137.5	-	148
20	10 bar	25	145	83.0	65	16.0	125.0	157.0	-	195
25	10 bar	32	165	94.0	74	18.0	142.5	178.5	-	297
32	10 bar	40	190	109.0	86	20.5	164.0	205.0	-	475
40	10 bar	50	210	119.0	99	23.5	196.5	243.5	-	675
50	10 bar	63	240	142.5	120	27.5	239.0	294.0	-	1100
65	6 bar	75	300	176.0	103	31.0	179.0	241.0	96	1580
80	4 bar	90	325	193.0	115	35.5	189.0	260.0	105	1920
100	4 bar	110	385	229.0	138	41.5	240.0	323.0	-	3000

DN 10 – DN 50



DN 65 – DN 100



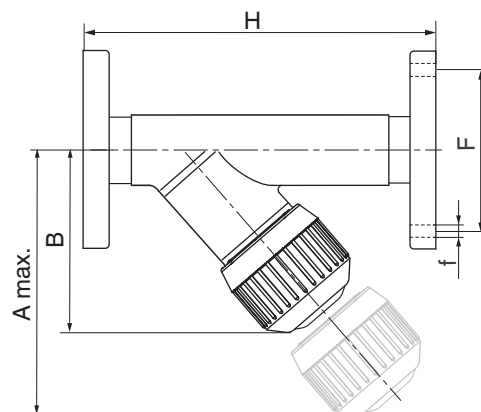
Dimensions [mm]

Flanges – DIN, connection code 4 Valve body material: PVC-U grey (code 1), PVC-U transparent (code 3)

DN	PN Operating pressure		d	A max.	B	H	F	f	Weight [g]
	Material code 1	Material code 3							
15	16 bar	10 bar	20	125	72	130	60.3	14	260
20	16 bar	10 bar	25	145	84	150	69.9	14	395
25	16 bar	10 bar	32	165	95	160	79.4	14	560
32	16 bar	10 bar	40	190	111	180	88.9	18	850
40	16 bar	10 bar	50	210	120	200	98.4	18	1170
50	16 bar	10 bar	63	240	139	230	120.7	18	1760
65	10 bar	6 bar	75	300	179	356	139.7	17	3600
80	6 bar	4 bar	90	325	192	404	152.4	17	4910
100	6 bar	4 bar	110	385	231	475	190.5	17	6790

Flanges – ANSI, connection code 41 Valve body material: PVC-U grey (code 1), PVC-U transparent (code 3)

DN	PN Operating pressure		d	A max.	B	H	F	f	Weight [g]
	Material code 1	Material code 3							
15	16 bar	10 bar	1/2"	125	72	130	60.3	15.9	260
20	16 bar	10 bar	3/4"	145	84	150	69.9	15.9	395
25	16 bar	10 bar	1"	165	95	160	79.4	15.9	560
32	16 bar	10 bar	1 1/4"	190	111	180	88.9	15.9	850
40	16 bar	10 bar	1 1/2"	210	120	200	98.4	15.9	1170
50	16 bar	10 bar	2"	240	139	230	120.7	19.1	1760
65	10 bar	6 bar	2 1/2"	300	179	356	139.7	19.1	3600
80	6 bar	4 bar	3"	325	192	404	152.4	19.1	4910
100	6 bar	4 bar	4"	385	231	475	190.5	19.1	6790



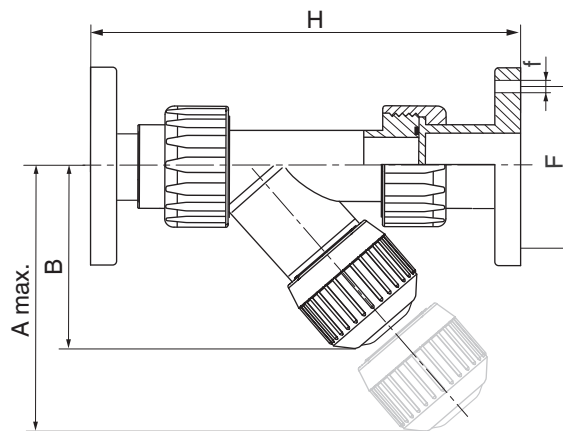
Dimensions [mm]

Flanges – DIN, connection code 4 Valve body material: PP-H grey (code G5)

DN	PN Operating pressure	d	A max.	B	H	F	f	Weight [g]
15	10 bar	20	125	72	162.5	65	14	248
20	10 bar	25	145	84	193.0	75	14	295
25	10 bar	32	165	95	210.5	85	14	397
32	10 bar	40	190	111	243.5	100	18	625
40	10 bar	50	210	120	277.0	110	18	825
50	10 bar	63	240	139	330.5	125	18	1250

Flanges – ANSI, connection code 41 Valve body material: PP-H grey (code G5)

DN	PN Operating pressure	d	A max.	B	H	F	f	Weight [g]
15	10 bar	1/2"	125	72	162.5	65	15.9	248
20	10 bar	3/4"	145	84	193.0	75	15.9	295
25	10 bar	1"	165	95	210.5	85	15.9	397
32	10 bar	1 1/4"	190	111	243.5	100	15.9	625
40	10 bar	1 1/2"	210	120	277.0	110	15.9	825
50	10 bar	2"	240	139	330.5	125	19.1	1250



Overview of valve bodies for GEMÜ N570														
Connection code	0		1			2			4			41		
Material code	1	3	1	3	G5	1	3	G5	1	3	G5	1	3	G5
DN														
10	X	X	X	X	-	X	X	-	-	-	-	-	-	-
15	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20	X	X	X	X	X	X	X	X	X	X	X	X	X	X
25	X	X	X	X	X	X	X	X	X	X	X	X	X	X
32	X	X	X	X	X	X	X	X	X	X	X	X	X	X
40	X	X	X	X	X	X	X	X	X	X	X	X	X	X
50	X	X	X	X	X	X	X	X	X	X	X	X	X	X
65	-	-	X	X	-	X	X	X	X	X	-	X	X	-
80	-	-	X	X	-	X	X	X	X	X	-	X	X	-
100	-	-	X	X	-	X	X	X	X	X	-	X	X	-

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Filter mesh overview													
Mesh spacing [mm]	0,7		1,0		1,5		1,5		2,0		2,5		
Filter material	1.4301 (Code 45)		PVC-U (Code 1)		PVC-U (Code 1)		PP (Code N5)		PVC-U (Code 1)		PVC-U (Code 1)		
Strainer material	PVC (Code 1, 3)	PP (Code G5)	PVC (Code 1, 3)	PP (Code G5)	PVC (Code 1, 3)	PP (Code G5)	PVC (Code 1, 3)	PP (Code G5)	PVC (Code 1, 3)	PP (Code G5)	PVC (Code 1, 3)	PP (Code G5)	
DN													
10	X	-	X	-	X	-	-	-	X	-	X	-	
15	X	X	X	X	X	X	-	X	X	X	X	X	
20	X	X	X	X	X	X	-	X	X	X	X	X	
25	X	X	X	X	X	X	-	X	X	X	X	X	
32	X	X	X	X	X	X	-	X	X	X	X	X	
40	X	X	X	X	X	X	-	X	X	X	X	X	
50	X	X	X	X	X	X	-	X	X	X	X	X	
65	X	-	X	-	X	-	-	X	X	-	X	-	
80	X	-	X	-	X	-	-	X	X	-	X	-	
100	X	-	X	-	X	-	-	X	X	-	X	-	

Should there be any doubts or misunderstandings, the German version of this data sheet is the authoritative document!