



Strainer, Stone and Gravel Trap

Model: 70F

The Model 70F Strainer is designed to protect the pipeline and valves from large foreign objects, such as sticks and stones. It is recommended to install the strainer upstream of control valves, flow meters and other system components. For high pressure applications, the Model 80F Strainer is available.



1.0 General Information:

- Strainer type: Basket
- Strainer pattern: Y (oblique) or angle
- Available sizes: 1.5"-24" / DN40-600
- Maximum working pressure: 250 or 400 psi/ 16 or 25 bar
- End connections:
 - Grooved: (OGS) ANSI/AWWA C606 (1.5"-8"/DN40-200)
 - Flanged: ANSI B16.5 class #150 & #300 (1.5"-24"/DN40-600)
 - Threaded: NPT/BSP (1.5"-3"/DN40-80)
- Working temperature: water up to 140°F/60°C

2.0 Certificates:

- NSF 61
- NSF 372
- Others:



ACS
France



GOST
Russia



PZH
Poland



ISO 9001-
2008

Job/Owner

System No.	
Location	

Contractor

Submitted by	
Date	

Engineer

Spec Section	
Paragraph	
Approved	
Date	





3.0 Construction Materials:

- Body and cover:
 - Standard: Ductile Iron, Epoxy Fusion Bonded Coating
 - Optional: Stainless Steel 316 (Flanged only)
- Screen:
 - Standard: Stainless Steel 304
 - Optional : Stainless Steel 316
- Bolts, nuts and studs:
 - Stainless Steel 316
- Elastomers: EPDM

4.0 Screen Information

- Basket holes (for standard stainless steel 304 screen)
 - 1½"-2½" / DN40– DN65 : 2.0 mm, 26% Open area.
 - 2½" / DN65 Sigma EN: 3.0 mm, 28% Open area.
 - 3"-4" / DN80-DN100 : 3.0mm, 28% Open area.
 - 6"-24" / DN150-600: 5.0mm, 31 % Open area.



5.0 General Notes:

- N/A

6.0 Specify When Ordering:

- Maximum flow rate (gpm, m³/h)
- Inlet pressure (psi, bar)
- Body material: Ductile Iron (standard) or Stainless Steel
- End connections: Grooved (standard), Flanged or Threaded

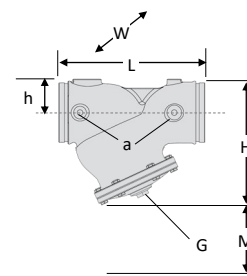


Submittal

7.0 Dimensions, Weights & Flows:

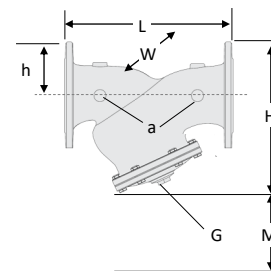
7.1 Grooved Strainers - ANSI/AWWA C606 (Standard)

Nominal	Inch	1.5"	2"	2.5"	3"	4"	6"	8"
	mm	40	50	65	80	100	150	200
L	Inch	8.07	8.27	8.46	9.84	12.6	16.34	19.69
	mm	205	210	215	250	320	415	500
W	Inch	4.8	4.8	4.8	6.61	7.87	12.6	15.35
	mm	122	122	122	168	200	320	390
h	Inch	1.3	1.57	1.57	2.36	2.91	3.74	4.92
	mm	33	40	40	60	74	95	125
H	Inch	7.64	7.91	7.91	10.43	12.8	18.31	20.83
	mm	194	201	201	265	325	465	529
G	Inch	¾" NPT			1½" NPT			
a	Inch	¼" NPT			⅜" NPT			
Weight	lb.	7.5	7.9	24	27	44	68	115
	Kg	3.4	3.6	11	12	20	31	52
M	Inch	2.99	2.99	2.99	4.13	5	5.94	7.28
	mm	76	76	76	105	127	151	185
Cv	psi, GPM	40	47	49	113	189	400	655
Kv	m ³ /hr/bar	35	41	42	98	164	346	567
K	-	3.3	5.8	15.9	6.7	5.8	6.6	7.8



7.2 Flanged Strainers - Ductile Iron, Sigma Series - Class ANSI150 and ANSI300

Nominal	Inch	1.5"	2"	2.5"	3"	4"	6"	8"	10"	12"
	mm	40	50	65	80	100	150	200	250	300
L	Inch	9.06	9.06	11.42	12.2	13.78	18.9	23.62	28.74	33.46
	mm	230	230	290	310	350	480	600	730	850
W	Inch	6.1	6.5	7.48	8.27	10.04	12.6	15.75	18.9	22.44
	mm	155	165	190	210	255	320	400	480	570
h	Inch	3.19	3.39	3.78	4.25	5.12	6.42	7.6	8.94	10.71
	mm	81	86	96	108	130	163	193	227	272
H	Inch	9.21	9.69	11.57	13.11	15.59	20.24	24.33	28.54	34.69
	mm	234	246	294	333	396	514	618	725	881
G	Inch	¾" BSP.P			1½" BSP.P		2" BSP.P			
a	Inch	¼" NPT			⅜" NPT		½" NPT			
Weight	lb.	20.7	25.1	26	50	84	152	238	357	536
	Kg	9.4	11.4	12	23	38	69	108	162	243
M	Inch	2.99	2.99	2.99	4.13	5	5.94	7.28	9.84	11.81
	mm	76	76	76	105	127	151	185	250	300
Cv	psi, GPM		47	49	113	189	400	655	1016	1663
Kv	m ³ /hr/bar	35	41	42	98	164	346	567	880	1440
K	-	3.3	5.8	15.9	6.7	5.8	6.6	7.8	7.9	6.1



Notes:

- M - Minimal required space for screen replacement
- G - for NPT cover plug on flanged strainers consult factory

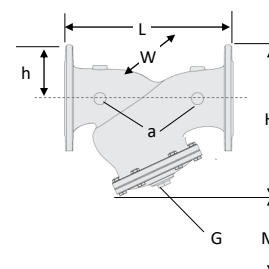




Submittal

7.3 Flanged Strainers - Stainless Steel - Class ANSI150

Nominal	Inch	1.5"	2"	2.5"	3"	4"	6"	8"	10"	12"	
	mm	40	50	65	80	100	150	200	250	300	
L	Inch	8.07	8.07	8.27	9.84	12.60	16.34	19.69	23.82	28.54	
	mm	205	205	210	250	320	415	500	605	725	
W	Inch	5.00	5.98	7.01	7.52	9.02	12.60	15.35	16.38	19.06	
	mm	127	152	178	191	229	320	390	416	484	
h	Inch	3.07	3.27	3.50	3.94	4.37	5.63	6.77	8.15	9.53	
	mm	78	83	89	100	111	143	172	207	242	
H	Inch	7.99	8.19	8.43	10.63	12.64	16.26	19.76	24.69	28.43	
	mm	203	208	214	270	321	413	502	627	722	
G	Inch	¾" BSP.P			1½" BSP.P			2" BSP.P			
a	Inch	¼" NPT			⅜" NPT			½" NPT			
Weight	lb.	14.3	17.6	23	37	62	106	165	276	496	
	Kg	6.5	8.0	10.4	17	28	48	75	125	225	
M	Inch	2.99	2.99	2.99	4.13	5	5.94	7.28	9.84	11.81	
	mm	76	76	76	105	127	151	185	250	300	
Cv	psi, GPM	40	47	49	113	189	400	655	1016	1663	
Kv	m ³ /hr/bar	35	41	42	98	164	346	567	880	1440	
K	-	3.3	5.8	15.9	6.7	5.8	6.6	7.8	7.9	6.1	



7.4 Flanged Strainers - Stainless Steel - Class ANSI300

Nominal	Inch	1.5"	2"	2.5"	3"	4"	6"	8"	10"	12"	
	mm	40	50	65	80	100	150	200	250	300	
L	Inch	8.07	8.27	8.74	10.39	13.19	17.05	20.63	25.08	30.00	
	mm	205	210	222	264	335	433	524	637	762	
W	Inch	6.14	6.50	7.52	8.27	10.00	12.60	15.35	17.52	20.51	
	mm	156	165	191	210	254	320	390	445	521	
h	Inch	3.07	3.27	3.50	3.94	4.37	5.63	6.77	8.15	9.53	
	mm	78	83	89	100	111	143	172	207	242	
H	Inch	7.99	8.19	8.66	10.83	13.27	16.89	20.51	25.31	29.17	
	mm	203	208	220	275	337	429	521	643	741	
G	Inch	¾" BSP.P			1½" BSP.P			2" BSP.P			
a	Inch	¼" NPT			⅜" NPT			½" NPT			
Weight	lb.	17.2	22.0	29	44	75	128	209	337	586	
	Kg	7.8	10	13	20	34	58	95	153	266	
M	Inch	2.99	2.99	2.99	4.13	5	5.94	7.28	9.84	11.81	
	mm	76	76	76	105	127	151	185	250	300	
Cv	psi, GPM	40	47	49	113	189	400	655	1016	1663	
Kv	m ³ /hr/bar	35	41	42	98	164	346	567	880	1440	
K	-	3.3	5.8	15.9	6.7	5.8	6.6	7.8	7.9	6.1	

Notes:

- M - Minimal required space for screen replacement

